

Pesticide Standards Reference Guide



AccuStandard®

Over 1,000 Standards from Abamectin to Ziram

Pesticide Desk Reference Guide

This guide includes the following information (if available)

- Chemical name
- Structure
- CAS number
- Molecular formula
- Molecular weight
- Physical state

Included for most:

- Solvent solubility
- Specific gravity
- Melting or Boiling point
- Flash point
- Common Synonyms

Updated

Purchased Standards vs In-house Standards

1. **Safety** - Using solutions rather than neat reduces the laboratory personnel's exposure to chemicals. Additionally, labs do not have to store and dispose of the neat materials.
2. **Certification** - Many laboratories are required to use independently produced reference standards. AccuStandard is accredited to ISO Guide 34 for the preparation and certification of reference materials.
3. **Cost effective** - Purchasing bulk bottles of pesticides, making the solution and disposing of the waste is usually more expensive than using a pre-made solution.

Some pesticides may require a ColdPAK for shipping to preserve the integrity of the product.



**You Set the Standards
We make them!®**

Custom pesticide formulations can be prepared for residue screening and other applications.

- CAS number index
- Most individual pesticide standards are available in neat and solution
- EPA, EU and other methodologies

Contact us for Synthesis of rare Pesticides and Metabolites

Pesticide Name

Chemical Name

Structure

Common Names (Synonyms and/or Trade Names)

Property Key

CAS	Chemical Abstract Service
MF	Molecular Formula
MW	Molecular Weight
PS	Physical State (Solid, Liquid)
SG	Specific Gravity (g/cm ³)
MP	Melting Point (°C)
BP	Boiling Point (°C)
FP	Flash Point (°C)
SOL	Solubility

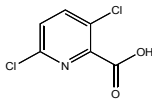
Solubility Key (SOL)

A	Acetone
CN	Acetonitrile (AcCN)
D	Dichloromethane
DMSO	Dimethyl sulfoxide
EA	Ethyl acetate
H	Hexane
IPA	Isopropanol
M	Methanol
MC	Methyl cellosolve
T	Toluene
TP	Isooctane
W	Water

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Sample Individual Pesticide

Lontrel		
3,6-Dichloropyridine-2-carboxylic acid		
 <p style="text-align: center;"><i>Clopyralid</i></p>		
CAS 1702-17-6 MF C ₆ H ₃ Cl ₂ NO ₂ MW 192 PS S		
SG 1.61 g/cm ³ MP 151-153 °C BP 324 °C		
FP 150 °C SOL M,A,D,CN,EA,H,W		
Matrix	Cat. No.	Unit
NEAT	P-224N	10 mg
100 µg/mL in MeOH	P-224S ▲	1 mL

▲ Pesticides containing a carboxyl group may autoesterify in Methanol. These standards are intended for use after making the methyl derivative. For analysis of the parent compound we suggest a non-hydroxylic solvent such as Acetonitrile.



Ordering Options

Information on Pesticides Catalog Numbers

Pesticide Catalog Numbers have 5 parts:

1. The initial **P**- specifies the product is a Pesticide.
2. The following 3 or 4 numbers are sequentially assigned, and are unique to the chemical.
3. The next character (**an N or S**) specifies whether the product is Neat or in Solution.
4. “-” with letters specify a solvent other than Methanol (MeOH).
5. “-” with a number followed by an X specifies the concentration difference from the 100 µg/mL (ex: -10X is 1000 µg/mL). Check for availability.

Example: P-017S is Chlordane at 100 µg/mL in Methanol
 P-017N is Chlordane neat (10 mg)
 P-017S-H-10X is Chlordane at 1000 µg/mL in Hexane

Key to symbols appearing in the table:

in Acetone (-A)	in Hexane (-H)	in Toluene (-T)
in Acetonitrile (-CN)	in Isooctane (-TP)	in Water (-W)
in Ethyl acetate (-EA)	in Methyl cellosolve (-MC)	in Dimethyl sulfoxide (-DMSO)

Can't find a Pesticide?

Search using CAS Numbers Index in back of the catalog.

Purchasing Neat Pesticides

There are two ways to purchase neat standards: Nominal weight and exact weight (see box below). For your standard preparation (nominal or exact), rinse the sample out of the vial and cap with solvent and dilute to achieve the desired concentration. Unless specified, neat samples are provided with nominal weights. Typically, the vial contains approximately 10% more of the product, however it is not known when you receive your standard what the exact amount is in the vial. Below is a standard procedure for removing all the neat material from the vial and determining the exact weight of the material in the vial.

Small amounts (5-10 mg) of powder often are spread over the surface of the vial and cap. If the chemical is a liquid, it may coat the walls as a thin layer invisible to the eye. To recover all of the contents contained in a vial of neat material, please use the procedure described below:

1. Wipe the outside of the vial (containing the standard) clean and dry (including the cap).
2. Weigh the entire unit on an analytical balance. Record the weight to the nearest 0.1 mg.
3. Carefully transfer the contents to a volumetric flask using a suitable solvent. Rinse the cap and vial several times to assure a complete transfer.
4. Dry inside and outside of the vial and cap with mild heat or inert gas.
5. Weigh the empty dry vial on the same analytical balance to the nearest 0.1 mg and calculate by difference the amount of material transferred.



Ordering Exact Weight for neat pesticides

Neat pesticides are typically overfilled by approximately 10%, however, an exact weight is available for an additional charge. Specify X-WT when placing the order to take advantage of this service. A printout of the exact weight will be attached to the product label.

Rinse the pesticide out of the vial with the desired solvent and dilute to volume to get a weight/volume standard.

Custom Formulations

25-Plus Years Custom Formulation Experience

Custom Standards are a cost and time saving alternative



Custom pesticide formulations can be prepared for residue screening and other applications.



QC options

1. Gravimetric/Volumetric Certification:

Each compound is measured gravimetrically and QC verified instrumentally (where applicable).

Every component in the Standard will be within +/- 0.5% of the requested value unless otherwise stated on the Certificate of Analysis.

The solutions are diluted to volume using Class A glassware. A Certificate of Analysis accompanies each Standard and documents the gravimetric values.

2. Full Quantitative Certification:

This QA/QC method includes extended GC, GC/MS or LC analysis using both internal calibration standards plus statistical analysis.

Private Labeling / OEM

Manufactured and Tested to meet your specifications



Auto Filling/Sealing Machine:

- Ampule sizes 0.2 mL - 20 mL
- Quantities 500 to 500K

Contact Technical Service for inquiries

Labels, Safety, Storage and Packaging

All organic solutions are in 2 mL Ampules, filled to approximately 1.2 mL to ensure 1 mL can be transferred.

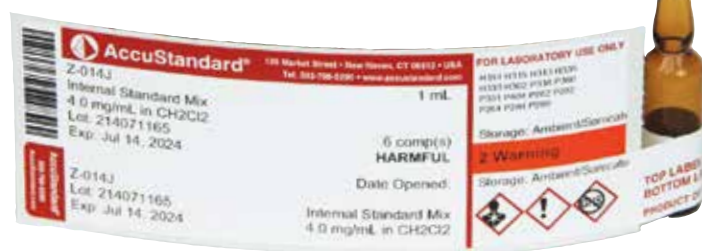
2-Part Label System

Smudgeproof, tear and solvent resistant *

Part One can be placed into a laboratory journal to document the standard used for the analysis. This label section includes the catalog number, description, lot number, expiration date, safety information, proper storage conditions and documents AccuStandard as the manufacturer.

Part Two duplicates required information for labeling transfer vial(s) with correct information.

* Includes the most common solvents:
Methylene chloride, Methanol and Acetone



Usage, Handling and Storage

Amber ampules are used to ensure the integrity of the contents. The ampule contains at least 120% of the stated volume of a solution, allowing easy transfer. Transfer the required amount using a pipet or clean gastight syringe. Excess solution can be stored in a tightly capped vial.

Expiration dates are determined by short-term and long-term stability studies, experience and knowledge of chemical interactions. As part of our long-term studies, standards are analyzed at the end of their assigned period and sometimes can be recertified for an additional length of time.

All products come with storage conditions listed on the label of the ampule or bottle. Some chemical formulations require refrigeration or freezer storage to inhibit adverse reactions among the components. It is imperative that these conditions are followed to preserve the integrity of the material.

GHS Symbols



• Acute Toxicity (fatal or toxic)

GHS-06



• Flammables
• Self Reactives
• Pyrophorics
• Self-Heating
• Emits Flammable Gas
• Organic Peroxides

GHS-02



• Carcinogen
• Respiratory Sensitizer
• Reproductive Toxicity
• Mutagenicity
• Aspiration Toxicity

GHS-08



• Irritant
• Skin Sensitizer
• Acute toxicity (harmful)
• Narcotic Effects
• Respiratory Tract Irritant

GHS-07



• Corrosives
• Skin corrosion/burns
• Eye Damage
• Corrosive to Metals

GHS-05



• Aquatic Toxicity

GHS-09

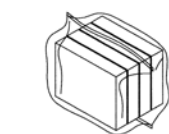
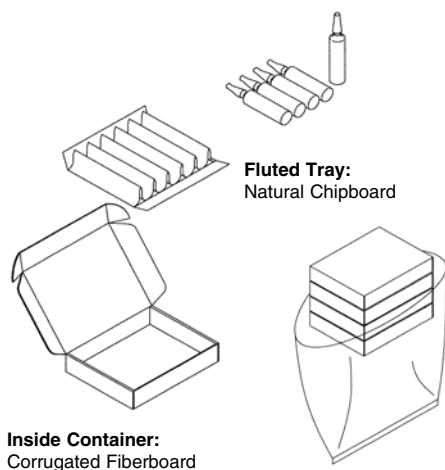


• Oxidizers

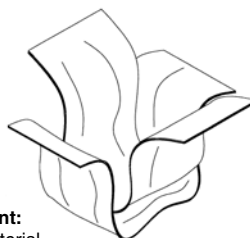
GHS-03

AccuStandard uses recyclable and biogradable material

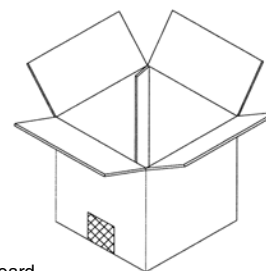
Package compliant with DOT and International regulations.



Cushioning/Absorbent:
Natural Kraft Fiber Material

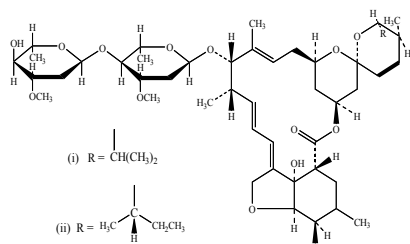


Shipping Container:
Natural Kraft Corrugated Fiberboard



**Abamectin**

Avermectin B1a & B1b



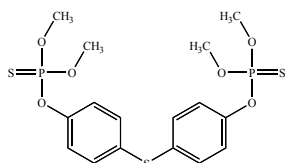
Affirm, Avid

CAS 71751-41-2 **MF** C₄₈H₇₂O₁₄ / C₄₇H₇₀O₁₄
PS S SG 1.13 g/cm³ **MP** 59-60 °C **BP** Decomp. ~200 °C
MP 165 °C **FP** >150 °C **SOL** T,A,M,EA,D,H,CN

Matrix	Cat. No.	Unit
NEAT	P-615N	10 mg
100 µg/mL in MeOH	P-615S	1 mL

Abate

O,O,O'-Tetramethyl O,O'-thiodi-p-phenylene bis(phosphorothioate)



Temephos

CAS 3383-96-8 **MF** C₁₆H₂₀O₆P₂S₃ **MW** 466.47
PS S SG 1.32 g/cm³ **MP** 30 °C **BP** 120 °C
SOL M,A,D,H,CN,TP,EA

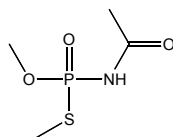
Matrix	Cat. No.	Unit
NEAT	P-101N	10 mg
100 µg/mL in MeOH	P-101S	1 mL

Acarol, see Bromopropylate

Accent, see Nicosulfuron

Acephate

O,S-Dimethyl acetylphosphoramidothioate



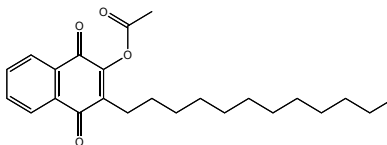
Orthene

CAS 30560-19-1 **MF** C₈H₁₀NO₃PS **MW** 183.17
PS S SG 1.35 g/cm³ **MP** 88 °C
SOL M,A,D,H,CN,TP,EA,T

Matrix	Cat. No.	Unit
NEAT	P-200N	10 mg
100 µg/mL in Acetone	P-200S-A	1 mL
1000 µg/mL in Acetone	P-200S-A-10X	1 mL

Acequinocyl

2-(acetyloxy)-3-dodecyl-1,4-naphthalenedione

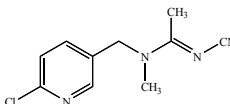


CAS 57960-19-7 **MF** C₂₄H₃₂O₄ **MW** 384.51 **PS S**
SG 1.13 g/cm³ **MP** 59-60 °C **BP** Decomp. ~200 °C
SOL H,T,D,A,M,EA,IPA,CN,DMSO

Matrix	Cat. No.	Unit
NEAT	P-1037N	10 mg
100 µg/mL in MeOH	P-1037S	1 mL

Acetamidrid

N-((6-chloro-3-pyridinyl)methyl)-N'-cyano-N-methylethanimidamide

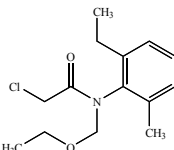


CAS 135410-20-7 **MF** C₁₀H₁₁CN₂ **MW** 222.67
PS S SG 1.33 g/cm³ **MP** 98-99 °C **BP** ~350 °C
FP 167 °C **SOL** M,A,D,CN,EA,H

Matrix	Cat. No.	Unit
NEAT	P-820N	10 mg
100 µg/mL in AcCN	P-820S-CN	1 mL

Acetochlor

2-Chloro-N-ethoxymethyl-6'-ethylacet-o-toluidide

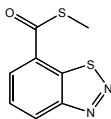


CAS 34256-82-1 **MF** C₁₄H₂₀ClNO₂ **MW** 269.77
PS L SG 1.12 g/cm³ **MP** 11 °C **BP** 172 °C
SOL M,A,D,H,T,CN,EA

Matrix	Cat. No.	Unit
NEAT	P-465N	10 mg
100 µg/mL in MeOH	P-465S	1 mL

Acibenzolar-S-methyl

1,2,3-Benzothiadiazole-7-carbothioicacid, S-methyl ester

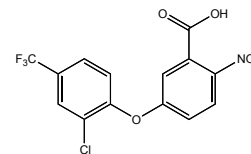


CAS 135158-54-2 **MF** C₈H₆N₂OS₂ **MW** 210.28
PS S SG 1.54 g/cm³ **MP** 133 °C **BP** 267 °C
SOL M,EA,H,T,A,D,CN

Matrix	Cat. No.	Unit
NEAT	P-895N	10 mg
100 µg/mL in MeOH	P-895S	1 mL

Acifluorfen

5-(2-Chloro-alpha,alpha,alpha-trifluoro-o-tolyloxy)-2-nitrobenzoic acid

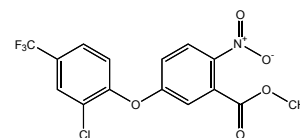


CAS 50594-66-6 **MF** C₁₄H₈ClF₃NO₃ **MW** 383.65
PS S SG 1.47 g/cm³ **MP** 124-125 °C **BP** 422 °C
FP 209 °C **SOL** M,A,CN,D,H

Matrix	Cat. No.	Unit
NEAT	P-245N	10 mg
100 µg/mL in MeOH	P-245S	1 mL
100 µg/mL in AcCN	P-245S-CN	1 mL
1000 µg/mL in MeOH	P-245S-10X	1 mL

Acifluorfen methyl ester

Methyl 5-(2-Chloro-alpha,alpha,alpha-trifluoro-o-tolyloxy)-2-nitrobenzoate

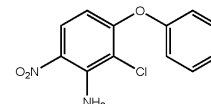


CAS 50594-67-7 **MF** C₁₅H₉ClF₃NO₃ **MW** 375.69
PS S SG 1.47 g/cm³ **BP** 392 °C **FP** 191 °C **SOL** M

Matrix	Cat. No.	Unit
NEAT	P-246N	10 mg
100 µg/mL in MeOH	P-246S	1 mL
1000 µg/mL in MeOH	P-246S-10X	1 mL

Acionifen

2-Chloro-6-nitro-3-phenoxyaniline



CAS 74070-46-5 **MF** C₁₂H₉CIN₂O₃ **MW** 264.66
PS S SG 1.45 g/cm³ **MP** 80-81 °C **BP** >300 °C
FP >150 °C **SOL** H,T,M,A

Matrix	Cat. No.	Unit
100 µg/mL in AcCN	P-890S-CN	1 mL

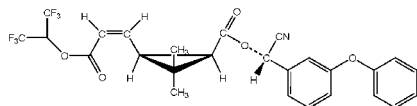
▲ Pesticides containing a carboxyl group may autoesterify in Methanol. These standards are intended for use after making the methyl derivative. For analysis of the parent compound we suggest a non-hydroxylic solvent such as Acetonitrile.



Pesticide Standards

Acrinathrin

(S)-(alpha)-cyano-3-phenoxybenzyl (Z)-(1R)-2,2-dimethyl-3-[2-(2,2,2-trifluoro-1-trifluoromethyl-ethoxycarbonyl)vinyl]cyclopropanecarboxylate



CAS 101007-06-1 **MF** C₂₆H₂₁F₆NO₅ **MW** 541.44
PS S **SG** 1.38 g/cm³ **MP** 81 °C **BP** ~230 °C
FP >230 °C **SOL** H,A,T,CN

Matrix	Cat. No.	Unit
100 µg/mL in AcCN	P-842S-CN	1 mL

Admiral, see *Pyriproxyfen*

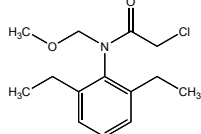
Affirm, see *Abamectin*

Agritox, see *Trichloronate*

Aim, see *Chlorfluazuron*

Alachlor

2-Chloro-2',6'-diethyl-N-methoxymethylacetanilide



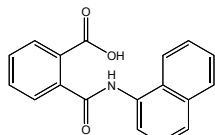
Lasso

CAS 15972-60-8 **MF** C₁₄H₂₀ClNO₂ **MW** 269.77
PS S **SG** 1.12 g/cm³ **MP** 39-42 °C **BP** 404 °C
FP 198 °C **SOL** M,A,D,H,T,CN,TP,EA

Matrix	Cat. No.	Unit
NEAT	P-102N	10 mg
100 µg/mL in MeOH	P-102S	1 mL
1000 µg/mL in MeOH	P-102S-10X	1 mL

Alanap

N-(1-naphthyl)phthalamic acid



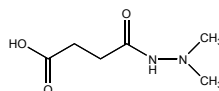
Naptalam

CAS 132-66-1 **MF** C₁₈H₁₅NO₃ **MW** 291.32 **PS S**
SG 1.40 g/cm³ **MP** 203 °C **SOL** M,A,H

Matrix	Cat. No.	Unit
NEAT	P-274N	10 mg
100 µg/mL in MeOH	P-274S	1 mL

Alar (SADH)

N-Dimethylaminosuccinic acid



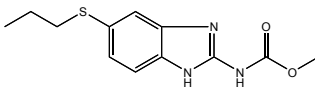
Daminozide, SADH

CAS 1596-84-5 **MF** C₆H₁₂N₂O₃ **MW** 160.2 **PS S**
SG 1.18 g/cm³ **MP** 154-156 °C **SOL** M,A,D,CN,W

Matrix	Cat. No.	Unit
NEAT	P-174N	10 mg
100 µg/mL in MeOH	P-174S	1 mL

Albendazole

Methyl-5-(propylthio)-2-benzimidazolecarbamate

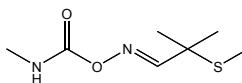


CAS 54965-21-8 **MF** C₁₂H₁₅N₃O₂S **MW** 265.33
PS S **SG** 1.30 g/cm³ **MP** 215 °C **BP** 473 °C
SOL M,CN

Matrix	Cat. No.	Unit
NEAT	P-498N	10 mg
100 µg/mL in MeOH	P-498S	1 mL

Aldicarb

2-Methyl-2-(methylthio)propionaldehyde O-methylcarbamoyloxime



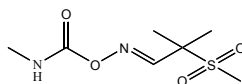
Temik

CAS 116-06-3 **MF** C₇H₁₄N₂O₂S **MW** 190.29 **PS S**
SG 1.20 g/cm³ **MP** 99 °C **FP** >100 °C
SOL M,A,D,H,T,CN,TP,EA,W

Matrix	Cat. No.	Unit
NEAT	P-001N	10 mg
100 µg/mL in MeOH	P-001S	1 mL
1000 µg/mL in MeOH	P-001S-10X	1 mL

Aldicarb sulfone

2-Methyl-2-(methylsulfonyl)propanal O-[(methylamino)carbonyl]-oxime



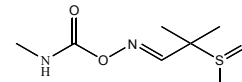
Aldoxycarb

CAS 1646-88-4 **MF** C₇H₁₄N₂O₄S **MW** 222.26
PS S **SG** 1.23 g/cm³ **MP** 132-135 °C **SOL** M,A,CN

Matrix	Cat. No.	Unit
NEAT	P-130N	10 mg
100 µg/mL in MeOH	P-130S	1 mL

Aldicarb sulfoxide

2-Methyl-2-(methylsulfinyl)propanol o-[(methylamino)carbonyl]



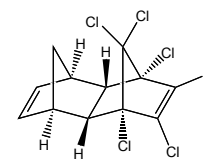
CAS 1646-87-3 **MF** C₇H₁₄N₂O₃S **MW** 206.26
PS S **SG** 1.21 g/cm³ **SOL** M,A,CN

Matrix	Cat. No.	Unit
NEAT	P-131N	10 mg
100 µg/mL in MeOH	P-131S	1 mL

Aldoxycarb, see *Aldicarb sulfone*

Aldrin

1,2,3,4,10,10-Hexachloro-1,4,4a,5,8,8a-hexahydro-exo-1,4-endo-5,8-dimethanonaphthalene



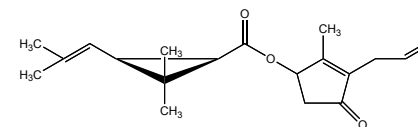
Octalene

CAS 309-00-2 **MF** C₁₂H₈Cl₆ **MW** 364.9 **PS S**
SG 1.73 g/cm³ **MP** 104 °C **BP** 385 °C **FP** 186 °C
SOL M,A,D,H,T,CN,TP

Matrix	Cat. No.	Unit
NEAT	P-002N	10 mg
100 µg/mL in MeOH	P-002S	1 mL
1000 µg/mL in MeOH	P-002S-10X	1 mL

Allethrin

(RS)-3-allyl-2-methyl-4-oxocyclopent-2-enyl(1RS,3RS;1RS,3SR)-2,2-dimethyl-3-(2-methylprop-1-enyl)cyclopropanecarboxylate



Esbiothrin

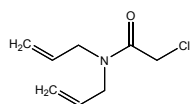
CAS 584-79-2 **MF** C₁₉H₂₆O₃ **MW** 302.45 **PS L**
SG 1.00 g/cm³ **BP** 160 °C
SOL M,A,D,H,CN,H,T,EA

Matrix	Cat. No.	Unit
NEAT	P-267N	10 mg
100 µg/mL in MeOH	P-267S	1 mL

d-trans-Allethrin, see *Bioallethrin d-trans-allethrin*

**Allidochlor**

N,N-Diallyl-2-chloroacetamide



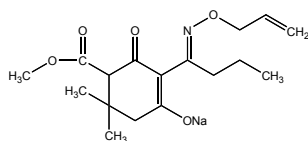
Radox

CAS 93-71-0 MF C₈H₁₂ClNO MW 173.66 PS L
SG 1.09 g/cm³ BP 241 °C FP 100 °C SOL M,CN

Matrix	Cat. No.	Unit
NEAT	P-670N	10 mg
100 µg/mL in MeOH	P-670S	1 mL

Alloxydim-sodium

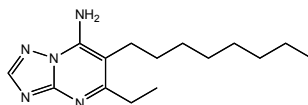
3-(1-(Allyloxyamino)butylidene)-6,6-dimethyl-2,4-dioxocyclohexanecarboxylic acid, methyl ester, sodium salt

CAS 55635-13-7 MF C₁₇H₂₄NO₅Na MW 345.41
PS S SOL M,A,EA

Matrix	Cat. No.	Unit
NEAT	P-510N	10 mg
100 µg/mL in MeOH	P-510S	1 mL

Alphamethrin, see *a-Cypermethrin***Altacor**, see *Chlorantraniliprole***Amber**, see *Triasulfuron***Amdro**, see *Hydramethylnon***Ametoctradin**

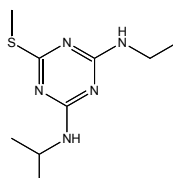
5-ethyl-6-octyl[1,2,4]triazolo[1,5-a]pyrimidin-7-amine

CAS 865318-97-4 MF C₁₅H₂₅N₅ MW 275.39
PS S SG 1.12 g/cm³ MP 198 °C
BP Decomp. ~234 °C SOL M,T,EA,A

Matrix	Cat. No.	Unit
100 µg/mL in MeOH	P-1039S	1 mL

Ametryn

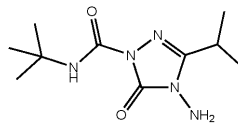
N2-Ethyl-N4-isopropyl-6-methylthio-1,3,5-triazine-2,4-diamine

CAS 834-12-8 MF C₉H₁₁N₃S MW 227.33 PS S
SG 1.18 g/cm³ MP 86 °C BP 337 °C
SOL M,A,D,H,T,CN,TP

Matrix	Cat. No.	Unit
NEAT	P-003N	10 mg
100 µg/mL in MeOH	P-003S	1 mL
1000 µg/mL in MeOH	P-003S-10X	1 mL

Amiben, see *Chloramben***Amicarbazone**

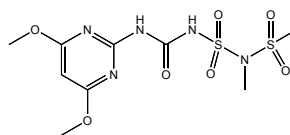
4-Amino-5-oxo-3-propan-2-yl-n-tert-butyl-1,2,4-triazole-1-carboxamide

CAS 129909-90-6 MF C₁₀H₁₉N₅O₂ MW 241.29
PS S SG 1.28 g/cm³ MP 130 °C
SOL W,IPA,EA,DMSO,A,CN,D

Matrix	Cat. No.	Unit
100 µg/mL in AcCN	P-1152S-CN	1 mL

Amidosulfuron

1-(4,6-dimethoxypyrimidin-2-yl)-3-mesyl(methyl)sulfamoylurea



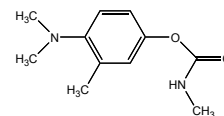
Gratil

CAS 120923-37-7 MF C₉H₁₅N₅O₇S₂ MW 369.38
PS S SG 1.50 g/cm³ MP 160-163 °C
SOL A,EA,T,H,M,CN

Matrix	Cat. No.	Unit
NEAT	P-821N	10 mg
100 µg/mL in AcCN	P-821S-CN	1 mL

Aminocarb

4-Dimethylamino-m-tolyl methylcarbamate



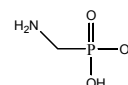
Metacil

CAS 2032-59-9 MF C₁₁H₁₆N₂O₂ MW 208.29
PS S SG 1.10 g/cm³ MP 93-94 °C BP 307 °C
FP 140 °C SOL M,A,H,CN

Matrix	Cat. No.	Unit
NEAT	P-062N	10 mg
100 µg/mL in MeOH	P-062S	1 mL
1000 µg/mL in MeOH	P-062S-10X	1 mL

Aminomethyl phosphonic acid

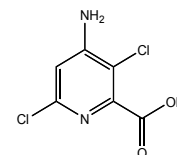
(8Cl)(9Cl)-(Aminomethyl)phosphonic acid

CAS 1066-51-9 MF CH₂NO₃P MW 111.04
PS S SG 1.64 g/cm³ MP 61-62 °C BP 358 °C
FP 170 °C SOL W

Matrix	Cat. No.	Unit
NEAT	P-625N	10 mg
100 µg/mL in Water	P-625S-W	1 mL
1000 µg/mL in Water	P-625S-W-10X	1 mL

Aminopyralid

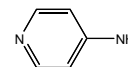
4-amino-3,6-dichloropyridine-2-carboxylic acid

CAS 150114-71-9 MF C₆H₄Cl₂N₂O₂ MW 207.01
PS S SG 1.76 g/cm³ MP 163-164 °C
BP Decomp. ~334 °C SOL A,EA,M,CN

Matrix	Cat. No.	Unit
NEAT	P-1048N	10 mg
100 µg/mL in MeOH	P-1048S	1 mL

4-Aminopyridine

4-Pyridamine



Amitrol

CAS 504-24-5 MF C₅H₆N₂ MW 94.12 PS S
MP 160-162 °C BP 273 °C FP 156 °C SOL M

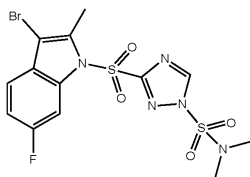
Matrix	Cat. No.	Unit
NEAT	P-407N	10 mg
100 µg/mL in MeOH	P-407S	1 mL



Pesticide Standards

Amisulbrom

3-(3-Bromo-6-fluoro-2-methylindol-1-ylsulfonyl)-N,N-dimethyl-1,2,4-triazole-1-sulfonamide

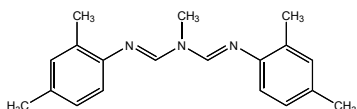


CAS 348635-87-0 **MF** C₁₃H₁₃BrFNO₄S₂ **MW** 466.31
PS S **SG** 1.95 g/cm³ **BP** >600 °C **FP** >300 °C
SOL H,T,M,TP

Matrix	Cat. No.	Unit
100 µg/mL in MeOH	P-998S	1 mL

Amitraz

N-Methylbis(2,4-xylyliminomethyl)amine



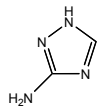
CAS 33089-61-1 **MF** C₁₉H₂₃N₃ **MW** 293.45 **PS** S
SG 0.98 g/cm³ **MP** 86 °C **SOL** M,A,CN,EA,T

Matrix	Cat. No.	Unit
NEAT	P-409N	10 mg
100 µg/mL in AcCN	P-409S-CN	1 mL
1000 µg/mL in MeOH	P-409S-10X	1 mL

Amitrol, see 4-Aminopyridine

Amitrole (ATA)

Amino-1,2,4-triazole

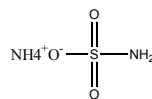


ATA, Diurol

CAS 61-82-5 **MF** C₂H₄N₄ **MW** 384.1 **PS** S
SG 1.14 g/cm³ **MP** 154-159 °C **SOL** T,IPA,D,A,M,EA

Matrix	Cat. No.	Unit
NEAT	P-103N	10 mg
100 µg/mL in MeOH	P-103S	1 mL

Ammonium sulfamate



AMS

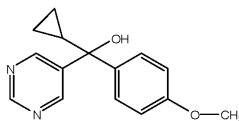
CAS 7773-06-0 **MF** H₇N₃O₃S **MW** 114.1 **PS** S
SG 1.01 g/cm³ **MP** 132-135 °C **BP** 160 °C **SOL** M,W

Matrix	Cat. No.	Unit
NEAT	P-530N	10 mg
100 µg/mL in MeOH	P-530S	1 mL

AMS, see Ammonium sulfamate

Ancymidol

alpha-Cyclopropyl-4-methoxy-alpha-(pyrimidin-5-yl) benzyl alcohol

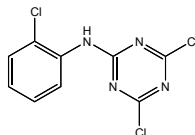


CAS 12771-68-5 **MF** C₁₅H₁₆N₂O₂ **MW** 256.3 **PS** S
SG 1.26 g/cm³ **MP** 110-111 °C **BP** 442 °C
FP 221 °C **SOL** M,A,H

Matrix	Cat. No.	Unit
NEAT	P-410N	10 mg
100 µg/mL in MeOH	P-410S	1 mL

Anilazine

2,4-Dichloro-6-(o-chloroanilino)-s-triazine



Dyrene

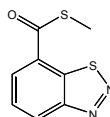
CAS 101-05-3 **MF** C₉H₇Cl₃N₃ **MW** 275.52 **PS** S
SG 1.61 g/cm³ **MP** 159-160 °C **BP** 460 °C
FP 232 °C **SOL** D,H,T,IPA,A

Matrix	Cat. No.	Unit
NEAT	P-287N	10 mg
100 µg/mL in H-A (80:20)	P-287S-H	1 mL

2-Anilino-4,6-dimethylpyrimidine, see Pyrimethanil

Anilofos

S-[2-[(chlorophenyl)(1-methylethyl)amino]-2-oxoethyl] O,O-dimethyl phosphorodithioate



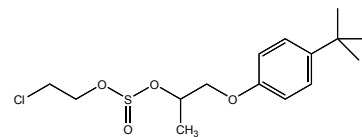
CAS 64249-01-0 **MF** C₁₃H₁₉ClNO₃PS₂ **MW** 367.85
PS S **SG** 1.27 g/cm³ **MP** 36 °C
BP decomp. before boiling **SOL** T,A,EA,H,D

Matrix	Cat. No.	Unit
100 µg/mL in AcCN	P-973S-CN	1 mL

Apache, see Cadusafos

Aramite

2-(4-tert-Butylphenoxy)-1-methylethyl 2-chloroethyl sulfide



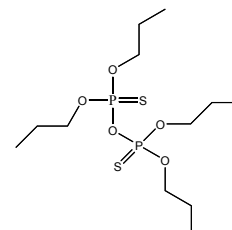
CAS 140-57-8 **MF** C₁₅H₂₃ClO₄S **MW** 334.86 **PS** S
SG 1.19 g/cm³ **BP** 426 °C **FP** 212 °C
SOL M,A,D,H,CN

Matrix	Cat. No.	Unit
100 µg/mL in MeOH	P-132S	1 mL

Asana, see Esfenvalerate

Aspon

O,O,O',O'-Tetrapropyl dithiopyrophosphate



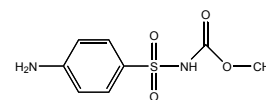
CAS 3244-90-4 **MF** C₁₂H₂₆O₄P₂S₂ **MW** 378.46
PS L **SG** 1.12 g/cm³ **BP** 375 °C **SOL** M,D,H,CN

Matrix	Cat. No.	Unit
100 µg/mL in MeOH	P-309S	1 mL

Assure, see Quizalofop ethyl

Asulam

Methyl sulfanylylcarbamate



Asulox

CAS 3337-71-1 **MF** C₈H₁₀N₂O₃S **MW** 230.26 **PS** S
SG 1.42 g/cm³ **MP** 143-144 °C **SOL** M,A,CN,EA,W

Matrix	Cat. No.	Unit
NEAT	P-276N	10 mg
100 µg/mL in MeOH	P-276S	1 mL

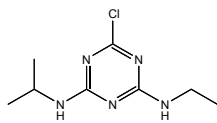
Asulox, see Asulam

ATCP, see Picloram

Atraton, see Gesatamine

**Atrazine**

6-Chloro-N2-ethyl-N4-isopropyl-1,3,5-triazine-2,4-diamine

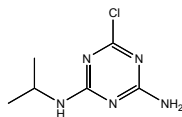


CAS 1912-24-9 **MF** C₈H₁₄ClN₅ **MW** 215.68 **PS** S
SG 1.23 g/cm³ **MP** 176 °C **BP** 20 °C
SOL M,A,D,H,T,CN,TP,EA

Matrix	Cat. No.	Unit
NEAT	P-005N	10 mg
100 µg/mL in MeOH	P-005S	1 mL
1000 µg/mL in MeOH	P-005S-10X	1 mL
1000 µg/mL in Acetone	P-005S-A-10X	1 mL

Atrazine Desethyl

2-Amino-4-chloro-6-isopropylamino-1,3,5-triazine



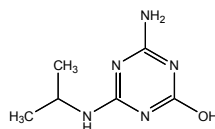
Desethyl atrazine

CAS 6190-65-4 **MF** C₈H₁₀ClN₅ **MW** 187.63 **PS** S
SG 1.23 g/cm³ **MP** 130-133 °C
SOL M,A,D,H,T,CN,EA

Matrix	Cat. No.	Unit
NEAT	P-343N	10 mg
100 µg/mL in MeOH	P-343S	1 mL

Atrazine-desethyl-2-hydroxy

4-amino-2-hydroxy-6-isopropylamino-s-triazine

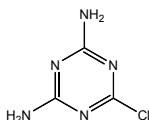


CAS 19988-24-0 **MF** C₈H₁₁N₅O **MW** 169.18
PS S **SG** 1.51 g/cm³ **MP** 159-160 °C **BP** 274 °C
FP 119 °C **SOL** MC

Matrix	Cat. No.	Unit
100 µg/mL in MC	P-544S-MC	1 mL

Atrazine-desethyl-desisopropyl

2-Chloro-4,6-diamino-1,3,5-triazine



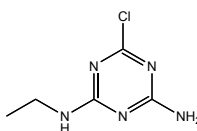
Desisopropyl desethyl atrazine

CAS 3397-62-4 **MF** C₃H₃ClN₃ **MW** 145.55 **PS** S
SG 1.70 g/cm³ **MP** >320 °C **BP** 488 °C **FP** 249 °C

Matrix	Cat. No.	Unit
NEAT	P-428N	10 mg

Atrazine-desisopropyl

2-Amino-4-chloro-6-ethylamino-1,3,5-triazine



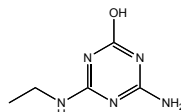
Desethyl simazine, Desisopropylatrazine

CAS 1007-28-9 **MF** C₅H₈N₅Cl **MW** 173.6 **PS** S
MP 173-177 °C **SOL** M,A,D,H,T,CN,EA

Matrix	Cat. No.	Unit
NEAT	P-345N	10 mg
100 µg/mL in MeOH	P-345S	1 mL

Atrazine-desisopropyl-2-hydroxy

4-Amino-2-hydroxy-6-(ethylamino)-1,3,5-triazine



CAS 7313-54-4 **MF** C₅H₉N₅O **MW** 155.16 **PS** L
BP >310 °C **SOL** MC

Matrix	Cat. No.	Unit
NEAT	P-344N	10 mg
100 µg/mL in MC	P-344S-MC	1 mL

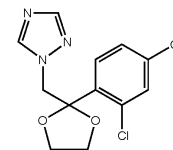
Atrazine-methoxy, see *Gesatamine*

Avid, see *Abamectin*

Axial, see *Pinoxaden*

Azaconazole

1-[2-(2,4-Dichlorophenyl)-1,3-dioxolan-2-ylmethyl]-1H-1,2,4-triazole



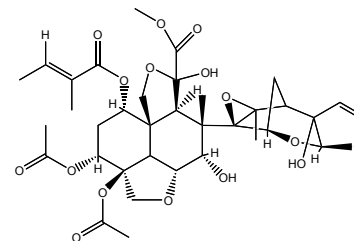
CAS 60207-31-0 **MF** C₁₂H₁₁Cl₂N₃O₂ **MW** 300.14
PS S **SG** 1.55 g/cm³ **MP** 112 °C **BP** >400 °C
FP >200 °C **SOL** A,H,M,T,CN,W

Matrix	Cat. No.	Unit
NEAT	P-971N	10 mg
100 µg/mL in AcCN	P-971S-CN	1 mL

Azad, see *Azadirachtin*

Azadirachtin

dimethyl (2aR,3S,4S,4aR,5S,7aS,8S,10R,10aS,10bR)-10-(acetyloxy)-3,5-dihydroxy-4-[[1aR,2S,3aS,6aS,7S,7aS)-6a-hydroxy-7a-methyl-3a,6a,7,7a-tetrahydro-2,7-methanofuro[2,3-b]oxireno[e]oxepin-1a(2H)-yl]-4-methyl-8-[[2E)-2-methylbut-2-enoyl]oxy]octahydro-1H-naphtho[1,8a-c:4,5-b'c']difuran-5,10a(8H)-dicarboxylate



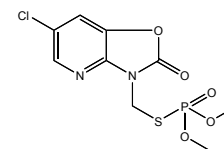
Azad

CAS 11141-17-6 **MF** C₃₅H₄₄O₁₆ **MW** 720.71 **PS** S
SG 1.51 g/cm³ **MP** 159 °C **BP** 792 °C **FP** 245 °C
SOL T,M,A,EA,CN,W

Matrix	Cat. No.	Unit
100 µg/mL in MeOH	P-711S	1 mL

Azamethiphos

S-6-Chloro-2,3-dihydro-2-oxo-oxazolo[4,5-b]pyridin-3-ylmethyl O,O-dimethyl phosphorothioate



CAS 35575-96-3 **MF** C₉H₉ClN₂O₂PS **MW** 324.68
PS S **SG** 1.60 g/cm³ **MP** 89 °C **FP** >150 °C
SOL M,CN,D

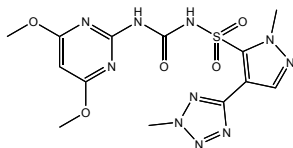
Matrix	Cat. No.	Unit
NEAT	P-352N	10 mg
100 µg/mL in MeOH	P-352S	1 mL



Pesticide Standards

Azimsulfuron

N-[(4,6-Dimethoxy-2-pyrimidinyl)amino]carbonyl]-1-methyl-4-(2-methyl-H-tetrazol-5-yl)-1H-pyrazole-5-sulfonamide

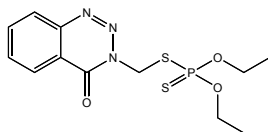


CAS 120162-55-2 **MF** C₁₃H₁₆N₁₀O₅S **MW** 424.40
PS S SG 1.12 g/cm³ **MP** 170 °C
BP Decomp. ~180 °C **SOL** A,EA,M,T,CN,D

Matrix	Cat. No.	Unit
50 µg/mL in AcCN	P-1036S-CN-0.5X	1 mL

Azinphos-ethyl

S-(3,4-Dihydro-4-oxobenzod[1,2,3]-triazin-3-ylmethyl) O,O-diethyl phosphorodithioate



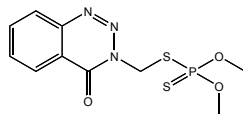
Ethyl azinphos

CAS 2642-71-9 **MF** C₁₂H₁₆N₃O₃PS₂ **MW** 345.38
PS S SG 1.28 g/cm³ **MP** 70-72 °C
SOL M,A,D,H,T,CN,TP,EA,IPA

Matrix	Cat. No.	Unit
NEAT	P-201N	10 mg
100 µg/mL in MeOH	P-201S	1 mL

Azinphos-methyl

O,O-Dimethyl-S-(4-oxo-3H-1,2,3-benzotriazine-3-methyl)phosphorodithioate



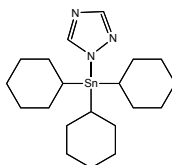
Guthion

CAS 86-50-0 **MF** C₁₀H₁₂N₃O₃PS₂ **MW** 317.33
PS S SG 1.52 g/cm³ **MP** 73 °C **BP** 200 °C
SOL M,A,D,H,T,CN,TP,EA,DMSO

Matrix	Cat. No.	Unit
NEAT	P-007N	10 mg
100 µg/mL in MeOH	P-007S	1 mL
1000 µg/mL in MeOH	P-007S-10X	1 mL
1000 µg/mL in Hexane	P-007S-H-10X	1 mL

Azocyclotin

Tri(cyclohexyl)-1H-1,2,4-triazol-1-yltin



CAS 41083-11-8 **MF** C₂₀H₃₅N₃Sn **MW** 436.27 **PS S**
SG 1.34 g/cm³ **MP** 210 °C **BP** 487 °C **FP** 249 °C
SOL D,IPA,H,T,M,CN

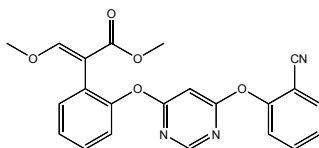
Matrix	Cat. No.	Unit
NEAT	P-353N	10 mg
100 µg/mL in MeOH	P-353S	1 mL

Azodrin, see *Monocrotophos*

Azophos, see *Methyl parathion*

Azoxystrobin

Methyl-(E)-[2-[6-(2-cyanophenoxy)pyrimidin-4-yloxy]phenyl]-3-methoxyacrylate



Pyroxylostrobin

CAS 131860-33-8 **MF** C₂₂H₁₇N₃O₅ **MW** 403.39
PS S SG 1.33 g/cm³ **MP** 118-119 °C
SOL M,A,D,T,CN,EA,H

Matrix	Cat. No.	Unit
NEAT	P-719N	10 mg
100 µg/mL in MeOH	P-719S	1 mL

Balan, see *Benfluralin*

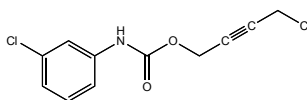
BAM, see *2,6-Dichlorobenzamide*

Bancol, see *Bensultap*

Banvel-D, see *Dicamba*

Barbamate

4-Chloro-2-butenyl (3-chlorophenyl)carbamate



Barban

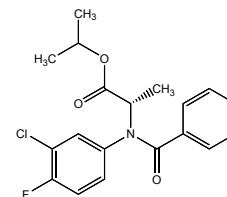
CAS 101-27-9 **MF** C₁₁H₉Cl₂NO₂ **MW** 258.11 **PS S**
SG 1.39 g/cm³ **MP** 75 - 76 °C **BP** 341 °C
FP 160 °C **SOL** M,A,D,CN,EA

Matrix	Cat. No.	Unit
NEAT	P-202N	10 mg
100 µg/mL in MeOH	P-202S	1 mL

Barban, see *Barbamate*

Barnon

Isopropyl-N-benzoyl-N-(3-chloro-4-fluorophenyl)-DL-alanine



Flamprop-isopropyl

CAS 52756-22-6 **MF** C₁₉H₁₉ClFNO₃ **MW** 363.84
PS S SG 1.31 g/cm³ **MP** 72.5-74.5 °C
BP 476 °C **FP** 242 °C **SOL** M,CN

Matrix	Cat. No.	Unit
NEAT	P-646N	10 mg
100 µg/mL in MeOH	P-646S	1 mL

BAS 490 F, see *Kresoxim-methyl*

Basagran, see *Bentazon*

Basic cupric chloride, see *Copper oxochloride*

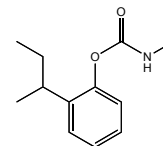
Basitac, see *Mepronil*

Basudin, see *Diazinon*

Batasan, see *Fentin acetate*

Baycarb

2-sec-Butylphenyl methylcarbamate



BPMC, Fenobucarb

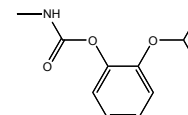
CAS 3766-81-2 **MF** C₁₂H₁₇NO₂ **MW** 207.3 **PS L,S**
SG 1.02 g/cm³ **MP** 32 °C **BP** 282 °C **FP** 125 °C
SOL A,T,D,EA,CN,W

Matrix	Cat. No.	Unit
NEAT	P-347N	10 mg
100 µg/mL in MeOH	P-347S	1 mL

Baycor, see *Bitertanol*

Baygon

2-Isopropoxyphenyl methylcarbamate



Propoxur

CAS 114-26-1 **MF** C₁₁H₁₅NO₃ **MW** 209.24 **PS S**
SG 1.17 g/cm³ **MP** 90 °C **SOL** M,A,D,H,T,CN,IPA,W

Matrix	Cat. No.	Unit
NEAT	P-009N	10 mg
100 µg/mL in MeOH	P-009S	1 mL



Bayleton, see *Triadimefon*

Baytex, see *Fenthion*

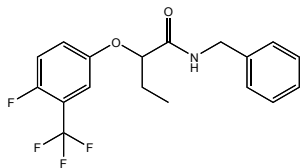
Baythroid I, see *Cyfluthrin*

Beacon, see *Primisulfuron-methyl*

Beam, see *Tricyclazole*

Beflubutamid

2-[4-fluoro-3-(trifluoromethyl)phenoxy]-N-(phenylmethyl)butanamide



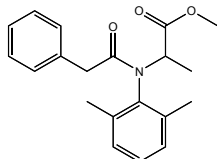
CAS 113614-08-7 **MF** C₁₈H₁₇F₄NO₂ **MW** 355.33
PS S **SG** 1.33 g/cm³ **MP** 75 °C
BP Decomp. ~128 °C **FP** >128 °C **SOL** A,EA,M

Matrix	Cat. No.	Unit
NEAT	P-1041N	10 mg
100 µg/mL in MeOH	P-1041S	1 mL

Belmark, see *Fenvalerate*

Benalaxyl

Methyl N-phenylacetyl-N-2,6-xylyl-DL-alaninate

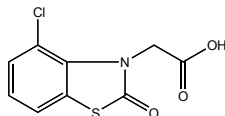


CAS 71626-11-4 **MF** C₂₀H₂₃NO₃ **MW** 325.4 **PS S**
SG 1.18 g/cm³ **MP** 79 °C **SOL** M,A,T,CN,EA

Matrix	Cat. No.	Unit
NEAT	P-559N	10 mg
100 µg/mL in MeOH	P-559S	1 mL

Benazolin

4-Chloro-2-oxobenzothiazolin-3-ylacetic acid



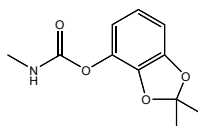
Bensecal, Metizolin, Tillox

CAS 3813-05-6 **MF** C₉H₆ClNO₃S **MW** 243.67
PS S **SG** 1.63 g/cm³ **MP** 193 °C **BP** 468 °C
FP 233 °C **SOL** M,A,CN,EA,IPA,D,T,W

Matrix	Cat. No.	Unit
NEAT	P-397N	10 mg
100 µg/mL in MeOH	P-397S ▲	1 mL

Bendiocarb

2,3-Isopropylidenedioxyphenyl methyl carbamate



Ficam

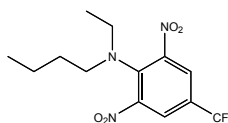
CAS 22781-23-3 **MF** C₁₁H₁₃NO₄ **MW** 223.23
PS S **SG** 1.25 g/cm³ **MP** 130 °C **FP** >100 °C
SOL M,A,D,H,T,CN,EA,W

Matrix	Cat. No.	Unit
NEAT	P-203N	10 mg
100 µg/mL in MeOH	P-203S	1 mL
1000 µg/mL in MeOH	P-203S-10X	1 mL

Benefin, see *Benfluralin*

Benfluralin

N-Butyl-N-ethyl-alpha,alpha,alpha-trifluoro-2,6-dinitro-p-toluidine



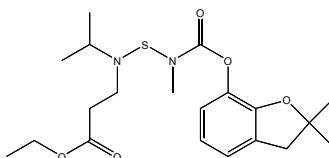
Balan, Benefin

CAS 1861-40-1 **MF** C₁₃H₁₆F₃N₃O₄ **MW** 335.28 **PS S**
SG 1.28 g/cm³ **MP** 66 °C **BP** 150 °C **FP** 151 °C
SOL M,A,D,T,CN,TP,EA,H

Matrix	Cat. No.	Unit
NEAT	P-237N	10 mg
100 µg/mL in MeOH	P-237S	1 mL

Benfuracarb

Ethyl-3-[[[(2,2-dimethyl-3H-1-benzofuran-7-yl)oxycarbonyl-methylamino]sulfonyl-propan-2-ylamino]propanoate

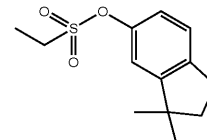


CAS 82560-54-1 **MF** C₂₀H₃₀N₂O₅S **MW** 410.5 **PS L**
SG 1.15 g/cm³ **BP** >190 °C, **SOL** A,M,H,CN,EA,D

Matrix	Cat. No.	Unit
NEAT	P-454N	10 mg
100 µg/mL in MeOH	P-454S	1 mL
1000 µg/mL in MeOH	P-454S-10X	1 mL

Benfuresate

2,3-dihydro-3,3-dimethyl-5-benzofuranyl ethanesulfonate

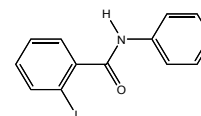


CAS 68505-69-1 **MF** C₁₂H₁₆O₄S **MW** 256.32 **PS S**
SG 0.96 g/cm³ **MP** 30-31 °C **BP** 241 °C **FP** 38 °C
SOL D,A,T,M,EA,H,W

Matrix	Cat. No.	Unit
NEAT	P-1080N	10 mg
100 µg/mL in MeOH	P-1080S	1 mL

Benodanil

2-Iodobenzanilide



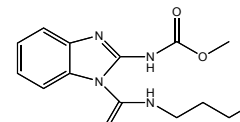
Calirus

CAS 15310-01-7 **MF** C₁₃H₁₀INO **MW** 323.13 **PS S**
SG 1.70 g/cm³ **MP** 137 °C **BP** 323 °C **FP** 149 °C
SOL M,CN,A,EA

Matrix	Cat. No.	Unit
NEAT	P-671N	10 mg
100 µg/mL in MeOH	P-671S	1 mL

Benomyl

1-(Butylcarbonyl)-2-benzimidazolecarbamic acid methyl ester



Fundazol

CAS 17804-35-2 **MF** C₁₄H₁₈N₄O₃ **MW** 290.32 **PS S**
SG 1.28 g/cm³ **MP** 140 °C **SOL** M,A,CN

Matrix	Cat. No.	Unit
NEAT	P-104N	10 mg
100 µg/mL in AcCN	P-104S-CN	1 mL

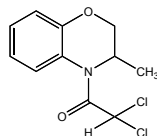
▲ Pesticides containing a carboxyl group may autoesterify in Methanol. These standards are intended for use after making the methyl derivative. For analysis of the parent compound we suggest a non-hydroxylic solvent such as Acetonitrile.



Pesticide Standards

Benoxacor

4-(dichloroacetyl)-3,4-dihydro-3-methyl-2H-1,4-benzoxazine



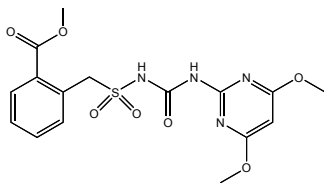
CAS 98730-04-2 **MF** C₁₁H₁₁Cl₂NO₂ **MW** 260.12
PS S **SG** 1.35 g/cm³ **MP** 107 °C **BP** 409 °C
FP 201 °C **SOL** A,D,M,H,EA,CN,T

Matrix	Cat. No.	Unit
NEAT	P-490N	10 mg
100 µg/mL in MeOH	P-490S	1 mL

Bensecal, see Benazolin

Bensulfuron-methyl

Methyl alpha-(4,6-dimethoxypyrimidin-2-yl)carbamoylsulfamoyl-o-toluate



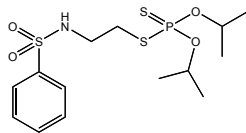
Londax

CAS 83055-99-6 **MF** C₁₆H₁₈N₄O₇S **MW** 410.4 **PS S**
SG 1.44 g/cm³ **MP** 185-188 °C **BP** 580 °C
SOL A,D,EA,M,CN

Matrix	Cat. No.	Unit
NEAT	P-597N	10 mg
100 µg/mL in MeOH	P-597S	1 mL

Bensulide

S-2-benzenesulfonamidoethyl O,O-di-isopropyl phosphorodithioate

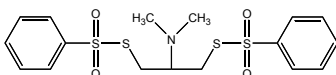


CAS 741-58-2 **MF** C₁₄H₂₄NO₄PS₃ **MW** 397.54
PS S **SG** 1.23 g/cm³ **MP** 34 °C **BP** 200 °C
SOL M,A,H,CN,EA

Matrix	Cat. No.	Unit
NEAT	P-204N	10 mg
100 µg/mL in MeOH	P-204S	1 mL
1000 µg/mL in MeOH	P-204S-10X	1 mL

Bensultap

S,S'-2-dimethylaminotrimethylene di(benzenethio-sulfonate)



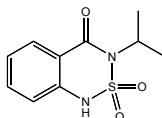
Bancol

CAS 17606-31-4 **MF** C₁₀H₁₂N₂O₃S₂ **MW** 431.63
PS S **SG** 1.35 g/cm³ **MP** 83-84 °C **BP** 591 °C
FP 311 °C **SOL** H,T,M,EA,D

Matrix	Cat. No.	Unit
NEAT	P-678N	10 mg
100 µg/mL in MeOH	P-678S	1 mL

Bentazon

3-Isopropyl-1H-2,1,3-benzothiadiazin-4(3H)-one 2,2-dioxide



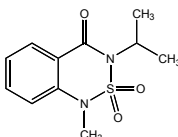
Basagran

CAS 25057-89-0 **MF** C₁₀H₁₂N₂O₃S **MW** 240.28
PS S **SG** 1.41 g/cm³ **MP** 138 °C
SOL M,A,D,H,T,CN,EA,W

Matrix	Cat. No.	Unit
NEAT	P-177N	10 mg
100 µg/mL in AcCN	P-177S-CN	1 mL
100 µg/mL in Acetone	P-177S-A	1 mL
1000 µg/mL in Acetone	P-177S-A-10X	1 mL

Bentazon methyl

3-Isopropyl-1H-2,1,3-benzothiadiazin-4(3H)-one 2,2-dioxide methyl ester

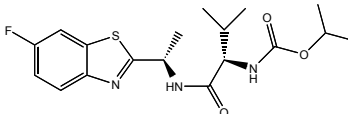


CAS 61592-45-8 **MF** C₁₁H₁₄N₂O₃S **MW** 254.31
PS S **MP** 137-139 °C **SOL** M

Matrix	Cat. No.	Unit
NEAT	P-241N	10 mg
100 µg/mL in MeOH	P-241S	1 mL

Benthiavalicarb-isopropyl

[[isopropyl[(S)-1-[(R)-1-(6-fluoro-1,3-benzothiazol-2-yl)ethyl]carbamoyl-2-methylpropyl]carbamate]

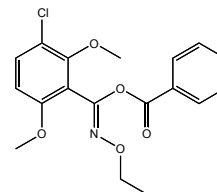


CAS 177406-68-7 **MF** C₁₈H₂₄FN₂O₃S **MW** 381.47
PS S **SOL** A, EA **SG** 1.25 g/cm³ **MP** 153-154 °C
BP Decomposes ~240 °C

Matrix	Cat. No.	Unit
10 µg/mL in Acetone	P-1049S-A-0.1X	1 mL

Benzoximate

3-chloro-a-(EZ)-ethoxyimino-2,6-dimethoxybenzyl benzoate



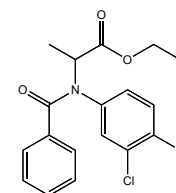
CAS 29104-30-1 **MF** C₁₈H₁₆ClNO₅ **MW** 363.79
PS S **SG** 1.30 g/cm³ **MP** 73 °C **FP** >200 °C
SOL H,CN

Matrix	Cat. No.	Unit
100 µg/mL in AcCN	P-801S-CN	1 mL

Benthiocarb, see Thiobencarb

Benzoylprop-ethyl

N-Benzoyl-N-(3,4-dichlorophenyl)-DL-alanine ethyl ester



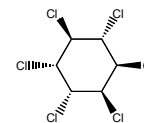
Suffix

CAS 22212-55-1 **MF** C₁₈H₁₇Cl₂NO₃ **MW** 366.26
PS S **SG** 1.30 g/cm³ **MP** 180 °C **BP** 493 °C
FP 252 °C **SOL** M,A,T,CN,TP

Matrix	Cat. No.	Unit
NEAT	P-340N	10 mg
100 µg/mL in MeOH	P-340S	1 mL

a-BHC

alpha-1,2,3,4,5,6-Hexachlorocyclohexane



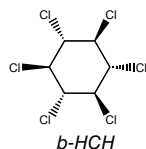
a-HCH

CAS 319-84-6 **MF** C₆H₆Cl₆ **MW** 290.83 **PS S**
SG 1.88 g/cm³ **MP** 156-161 °C
SOL M,A,D,H,T,CN,TP,EA

Matrix	Cat. No.	Unit
NEAT	P-010N	10 mg
100 µg/mL in MeOH	P-010S	1 mL
1000 µg/mL in MeOH	P-010S-10X	1 mL

**b-BHC**

beta-1,2,3,4,5,6-Hexachlorocyclohexane

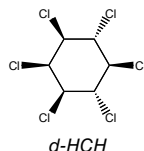


CAS 319-85-7 **MF** C₆H₆Cl₆ **MW** 290.83 **PS** S
SG 1.59 g/cm³ **MP** 112 °C **BP** 288 °C **FP** 157 °C
SOL M,A,D,H,T,CN,TP,EA

Matrix	Cat. No.	Unit
NEAT	P-011N	10 mg
100 µg/mL in MeOH	P-011S	1 mL
1000 µg/mL in MeOH	P-011S-10X	1 mL

d-BHC

delta-1,2,3,4,5,6-Hexachlorocyclohexane

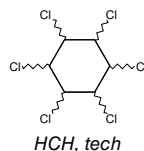


CAS 319-86-8 **MF** C₆H₆Cl₆ **MW** 290.83 **PS** S
SG 1.88 g/cm³ **MP** 138-139 °C
SOL M,A,D,H,T,CN,TP,EA

Matrix	Cat. No.	Unit
NEAT	P-012N	10 mg
100 µg/mL in MeOH	P-012S	1 mL
1000 µg/mL in MeOH	P-012S-10X	1 mL

*g-BHC, see Lindane***BHC Tech**

1,2,3,4,5,6-Hexachlorocyclohexanes

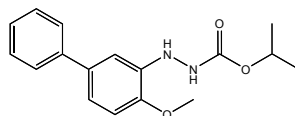


CAS 608-73-1 **MF** C₆H₆Cl₆ **MW** 290.83 **PS** S
SG 1.87 g/cm³ **MP** 150-160 °C **SOL** M,A,CN

Matrix	Cat. No.	Unit
NEAT	P-081N	10 mg
100 µg/mL in MeOH	P-081S	1 mL

*Bidrin, see Dicrotophos***Bifenazate**

Isopropyl 3-(4-methoxybiphenyl-3-yl)carbazate

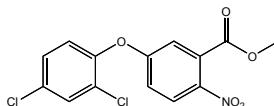


CAS 149877-41-8 **MF** C₁₇H₂₀N₂O₃ **MW** 300.35
PS S **SG** 1.15 g/cm³ **MP** 157-158 °C **BP** 417 °C

Matrix	Cat. No.	Unit
NEAT	P-772N-5MG	5 mg
100 µg/mL in MeOH	P-772S	1 mL

Bifenoxy

Methyl 5-(2,4-dichlorophenoxy)-2-nitrobenzoate

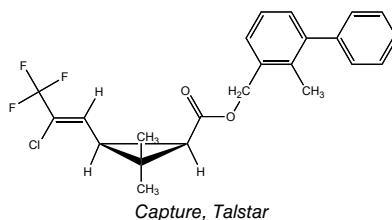


CAS 42576-02-3 **MF** C₁₄H₉Cl₂NO₃ **MW** 342.13
PS S **SG** 1.46 g/cm³ **MP** 84-89 °C
BP 421 °C **FP** 208 °C **SOL** M,D,T,A,CN

Matrix	Cat. No.	Unit
NEAT	P-257N	10 mg
100 µg/mL in MeOH	P-257S	1 mL

Bifenthrin

2-Methylbiphenyl-3-ylmethyl (Z)-(1R,3R)-cis-3-(2-chloro-3,3,3-trifluoroprop-1-enyl)-2,2-dimethylcyclopropanecarboxylate

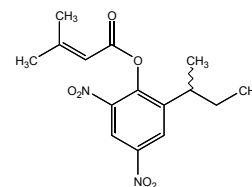


CAS 82657-04-3 **MF** C₂₃H₂₂ClF₃O₃ **MW** 422.9
PS S **SG** 1.21 g/cm³ **MP** 68-71 °C **FP** 165 °C
SOL M,A,T,CN,TP,EA,D

Matrix	Cat. No.	Unit
NEAT	P-445N	10 mg
100 µg/mL in MeOH	P-445S	1 mL
1000 µg/mL in MeOH	P-445S-10X	1 mL

Binapacryl

2-(1-Methylpropyl)-4,6-dinitrophenyl 3-methyl-2-butenate

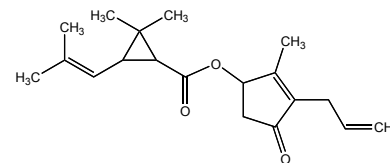


CAS 485-31-4 **MF** C₁₅H₁₈N₂O₆ **MW** 322.31 **PS** S
SG 1.24 g/cm³ **MP** 65-67 °C **BP** 437 °C **FP** 172 °C
SOL M,CN,A,H

Matrix	Cat. No.	Unit
NEAT	P-499N	10 mg
100 µg/mL in MeOH	P-499S	1 mL

Bioallethrin d-trans-allethrin

D-trans-2,2-dimethyl-3-(2-methyl-1-propenyl)cyclopropanecarboxylate

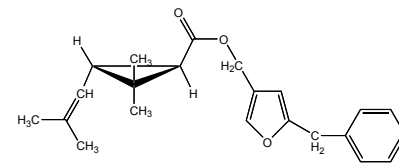


CAS 28057-48-9 **MF** C₁₃H₂₀O₃ **MW** 302.41 **PS** L
SG 1.05 g/cm³ **BP** 387 °C **FP** 166 °C
SOL A,EA,H,T,D,CN

Matrix	Cat. No.	Unit
NEAT	P-665N	10 mg
100 µg/mL in MeOH	P-665S	1 mL

Bioresmethrin

5-Benzyl-3-furylmethyl (1R,3R)-2,2-dimethyl-3-(2-methylprop-1-enyl)cyclopropanecarboxylate

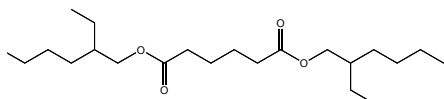


CAS 28434-01-7 **MF** C₂₂H₂₆O₃ **MW** 338.44 **PS** L
SG 1.05 g/cm³ **MP** 32 °C **BP** ~180 °C
SOL A,D,EA,T,H,M,CN

Matrix	Cat. No.	Unit
NEAT	P-594N	10 mg
100 µg/mL in MeOH	P-594S	1 mL

**bis(2-Ethylhexyl)adipate**

Di(2-ethylhexyl)adipate

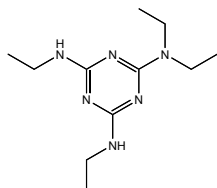
*Dioctyl adipate*

CAS 103-23-1 **MF** C₂₂H₄₂O₄ **MW** 370.57 **PS** L
SG 0.92 g/cm³ **MP** -67.8 °C **BP** 417 °C **FP** 110 °C
SOL M,A,D,H,CN,TP,EA

Matrix	Cat. No.	Unit
NEAT	P-233N	10 mg
100 µg/mL in MeOH	P-233S	1 mL
1000 µg/mL in MeOH	P-233S-10X	1 mL

2,4-bis(Ethylamino)-6-diethylamino-s-triazine

2,4-bis(Ethylamino)-6-diethylamino-1,3,5-triazine

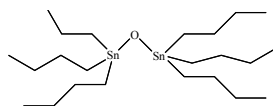


CAS N/A **MF** C₁₁H₂₂N₆ **MW** 238.33 **PS** S **SOL** MC

Matrix	Cat. No.	Unit
NEAT	P-536N	10 mg
100 µg/mL in MC	P-536S-MC	1 mL

*Bis(2,3,3,3-tetrachloropropyl) ether, see S421***bis(Tributyltin)oxide**

Tributyltin oxide

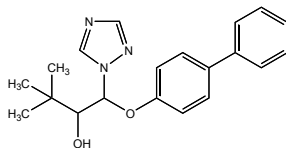
*Hexabutyldistannoxane*

CAS 56-35-9 **MF** C₂₄H₅₄OSn₂ **MW** 596.1 **PS** L
SG 1.17 g/cm³ **BP** 180 °C **FP** 113 °C
SOL M,A,D,H,CN,TP,EA,W

Matrix	Cat. No.	Unit
NEAT	P-455N	10 mg
100 µg/mL in MeOH	P-455S	1 mL
1000 µg/mL in MeOH	P-455S-10X	1 mL

Bitertanol

1-(Biphenyl-4-yloxy)-3,3-dimethyl-1-(1H-1,2,4-triazol-1-yl)butan-2-ol

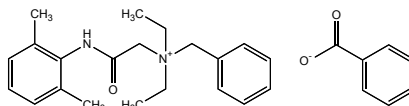
*Baycor, Sibutol*

CAS 55179-31-2 **MF** C₂₀H₂₃N₃O₂ **MW** 337.42
PS S **SG** 1.14 g/cm³ **MP** 127 °C **BP** 541 °C
FP 281 °C **SOL** M,A,T,CN,D,IPA

Matrix	Cat. No.	Unit
NEAT	P-351N	10 mg
100 µg/mL in MeOH	P-351S	1 mL

Bitrex

Benzyldiethyl((2,6-xylilcarbonyl)methyl) ammonium benzoate

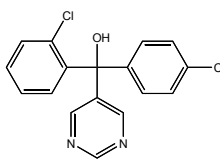
*Denatonium benzoate*

CAS 3734-33-6 **MF** C₂₁H₂₉N₂O•C₇H₅O₂ **MW** 446.64
PS L **SG** 0.79 g/cm³ **MP** -114.1 °C **BP** 78.5 °C
SOL A,EA,M

Matrix	Cat. No.	Unit
NEAT	P-679N	10 mg
100 µg/mL in MeOH	P-679S	1 mL

*Bladex, see Cyanazine***Bloc**

2,4-Dichloro-alpha-(pyrimidine-5-yl) benzhydrylalcohol

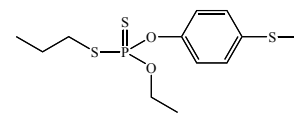
*Fenarimol*

CAS 60168-88-9 **MF** C₁₂H₁₂Cl₂N₂O **MW** 331.2
PS S **SG** 1.40 g/cm³ **MP** 117-119 °C **FP** 100 °C
SOL M,A,D,H,T,CN,TP,EA

Matrix	Cat. No.	Unit
NEAT	P-086N	10 mg
100 µg/mL in MeOH	P-086S	1 mL

Bolstar

O-Ethyl O-4-(methylthio)phenyl S-propyl phosphorodithioate

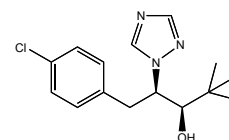
*Sulprofos*

CAS 35400-43-2 **MF** C₁₂H₁₉O₂PS₃ **MW** 322.46
PS L **SG** 1.20 g/cm³ **BP** 155-158 °C **FP** 198 °C
SOL M,A,D,H,CN,TP,EA

Matrix	Cat. No.	Unit
NEAT	P-108N	10 mg
100 µg/mL in MeOH	P-108S	1 mL
1000 µg/mL in Hexane	P-108S-H-10X	1 mL

*Boltage, see Pyraclofos***Bonzi**

(±)-R*,R*-beta-((4-Chlorophenyl)methyl)-alpha-(1,1-dimethylethyl)-1H-1,2,4-triazol-1-ethanol

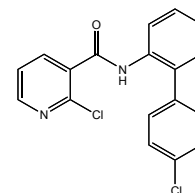
*Paclobutrazol*

CAS 76738-62-0 **MF** C₁₅H₂₀ClN₃O **MW** 293.83
PS S **SG** 1.22 g/cm³ **MP** 165-166 °C
SOL M,A,CN,EA

Matrix	Cat. No.	Unit
NEAT	P-669N	10 mg
100 µg/mL in MeOH	P-669S	1 mL

Boscalid

2-Chloro-N-(4'-chlorobiphenyl-2-yl)nicotinamide

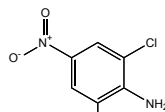
*Nicobifen*

CAS 188425-85-6 **MF** C₁₈H₁₂Cl₂N₂O **MW** 343.21
PS S **SOL** M, A, T **SG** 1.37 g/cm³ **MP** 143-144 °C
BP ~448 °C **FP** 225 °C **SOL** M,A,T,CN,EA

Matrix	Cat. No.	Unit
NEAT	P-811N	10 mg
100 µg/mL in MeOH	P-811S	1 mL

**Botran**

2,6-Dichloro-4-nitroaniline

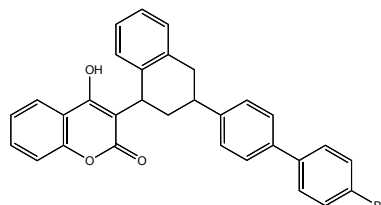
*Dichloran*

CAS 99-30-9 **MF** C₆H₄Cl₂N₂O₂ **MW** 207.01 **PS** S
SG 0.28 g/cm³ **MP** 195 °C
SOL M,A,D,H,T,CN,TP,EA

Matrix	Cat. No.	Unit
NEAT	P-013N	10 mg
100 µg/mL in MeOH	P-013S	1 mL

*BPMC, see Baycarb**Brodan, see Dursban***Brodifacoum**

4-Hydroxy-3-(3-(4'-bromo-4-biphenyl)-1,2,3,4-tetrahydro-1-naphthyl)coumarin

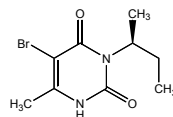
*Brodifacoum*

CAS 56073-10-0 **MF** C₃₁H₂₃BrO₃ **MW** 523.45
PS S **SG** 1.43 g/cm³ **MP** 228-230 °C **BP** 644 °C
FP 343 °C **SOL** EA,A,M,D,T

Matrix	Cat. No.	Unit
NEAT	P-677N	10 mg
100 µg/mL in MeOH	P-677S	1 mL

Bromacil

5-Bromo-3-sec-butyl-6-methyluracil

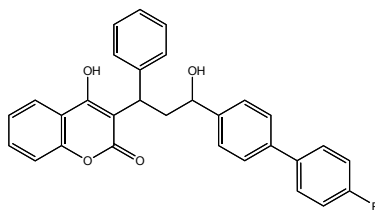


CAS 314-40-9 **MF** C₉H₁₃BrN₂O₂ **MW** 261.12 **PS** S
SG 1.55 g/cm³ **MP** 158-159 °C
SOL M,A,D,H,T,CN,EA,W

Matrix	Cat. No.	Unit
NEAT	P-181N	10 mg
100 µg/mL in MeOH	P-181S	1 mL

Bromadiolone

3-[3-(4'-bromobiphenyl-4-yl)-3-hydroxy-1-phenylpropyl]-4-hydroxycoumarin

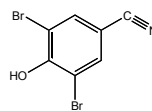


CAS 28772-56-7 **MF** C₃₀H₂₃BrO₄ **MW** 527.44 **PS** S
SG 1.45 g/cm³ **MP** 200-210 °C **BP** 687 °C
FP 369 °C **SOL** EA,A,M,CN,W

Matrix	Cat. No.	Unit
NEAT	P-316N	10 mg
100 µg/mL in MeOH	P-316S	1 mL

*Bromfenacoum, see Brodifacoum***Brominal**

3,5-Dibromo-4-hydroxybenzonitrile

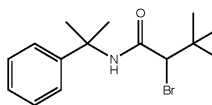
*Bromoxynil*

CAS 1689-84-5 **MF** C₇H₃Br₂NO **MW** 276.91 **PS** S
SG 2.24 g/cm³ **MP** 194-195 °C **BP** 266 °C
FP 114 °C **SOL** M,A,D,CN,EA

Matrix	Cat. No.	Unit
NEAT	P-256N	10 mg
100 µg/mL in MeOH	P-256S	1 mL

Bromobutide

(RS)-2-bromo-3,3-dimethyl-N-(1-methyl-1-phenylethyl)butyramide

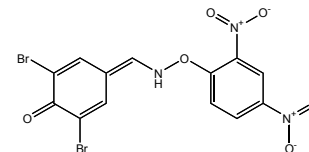


CAS 74712-19-9 **MF** C₁₆H₂₂BrNO **MW** 312.25
PS S **SG** 1.21 g/cm³ **MP** 180-182 °C **BP** 412 °C
FP 203 °C **SOL** M,A,H

Matrix	Cat. No.	Unit
100 µg/mL in MeOH	P-1059S	1 mL

Bromofenoxim

3,5-Dibromo-4-hydroxybenzaldehyde 2,4-dinitrophenylloxime

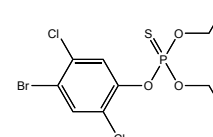
*Faneron*

CAS 13181-17-4 **MF** C₁₃H₇Br₂N₃O₆ **MW** 461.02
PS S **SG** 2.01 g/cm³ **MP** 196-197 °C **BP** 526 °C
FP 272 °C **SOL** H,IPA,A

Matrix	Cat. No.	Unit
NEAT	P-511N	10 mg
100 µg/mL in MeOH	P-511S	1 mL

*Bromofos-ethyl, see Bromophos-ethyl**Bromophos, see Bromophos-methyl***Bromophos-ethyl**

O-(4-Bromo-2,5-dichlorophenyl) O,O-diethyl phosphorothioate

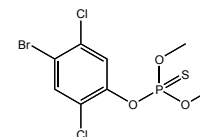
*Bromofos-ethyl*

CAS 4824-78-6 **MF** C₁₀H₁₂BrCl₂O₃PS **MW** 394.05
PS L **SG** 1.53 g/cm³ **BP** 122-123 °C **FP** >100 °C
SOL M,A,D,H,T,CN,TP,EA

Matrix	Cat. No.	Unit
NEAT	P-372N	10 mg
100 µg/mL in MeOH	P-372S	1 mL
1000 µg/mL in MeOH	P-372S-10X	1 mL

Bromophos-methyl

O-4-Bromo-2,5-dichlorophenyl O,O-dimethyl phosphorothioate

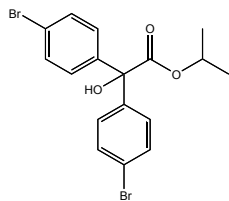
*Bromophos*

CAS 2104-96-3 **MF** C₉H₈BrCl₂O₃PS **MW** 366 **PS** S
SG 1.32 g/cm³ **MP** 53-56 °C **FP** >100 °C
SOL M,A,D,H,T,CN,TP

Matrix	Cat. No.	Unit
NEAT	P-484N	10 mg
100 µg/mL in MeOH	P-484S	1 mL

**Bromopropylate**

Isopropyl 4,4'-dibromobenzilate



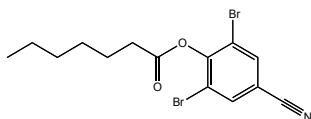
Acarol

CAS 18181-80-1 **MF** C₁₇H₁₆Br₂O₃ **MW** 428.1 **PS** S
SG 1.59 g/cm³ **MP** 77 °C **FP** > 100 °C
SOL M,A,D,H,T,CN,TP,IPA

Matrix	Cat. No.	Unit
NEAT	P-457N	10 mg
100 µg/mL in MeOH	P-457S	1 mL
1000 µg/mL in MeOH	P-457S-10X	1 mL

Bromoxynil-heptanoate

2,6-Dibromo-4-cyanophenylheptanoate

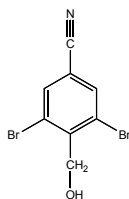


CAS 56634-95-8 **MF** C₁₄H₁₅Br₂NO₂ **MW** 389.08
PS S **SG** 1.63 g/cm³ **MP** 44-45 °C
BP Decomp. ~180 °C **SOL** EA,M,T,D,A

Matrix	Cat. No.	Unit
100 µg/mL in MeOH	P-1012S	1 mL

*Bromoxynil, see Brominal***Bromoxynil methyl ether**

3,5-Dibromo-4-methoxybenzotrile



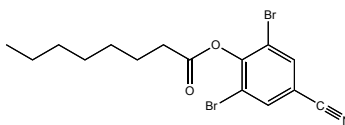
CAS 3336-39-8 **MF** C₈H₇Br₂NO **MW** 290.94
PS S **SG** 1.95 g/cm³ **MP** 97-98 °C **BP** 309 °C
FP 140 °C **SOL** M,A,D,T,TP

Matrix	Cat. No.	Unit
NEAT	P-573N	10 mg
100 µg/mL in MeOH	P-573S	1 mL

▲ Pesticides containing a carboxyl group may autoesterify in Methanol. These standards are intended for use after making the methyl derivative. For analysis of the parent compound we suggest a non-hydroxylic solvent such as Acetonitrile.

Bromoxynil octanoate

2,6-Dibromo-4-cyanophenyl octanoate

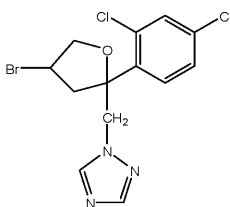


CAS 1689-99-2 **MF** C₁₅H₁₇Br₂NO₂ **MW** 403.11 **PS** S
SG 0.98 g/cm³ **MP** 45-46 °C **SOL** A,EA,M,T, CN

Matrix	Cat. No.	Unit
NEAT	P-550N	10 mg
100 µg/mL in MeOH	P-550S	1 mL

Bromuconazol

1-((2RS,4RS,2RS,4SR)-4-Bromo-2-(2,4-dichlorophenyl)tetrahydrofurfuryl)-1H-1,2,4-triazole

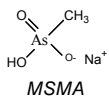


CAS 116255-48-2 **MF** C₁₃H₁₂BrCl₂N₃O **MW** 377.06
PS S **SG** 1.71 g/cm³ **MP** 84 °C **BP** 504 °C
FP 259 °C **SOL** H,T,A,CN

Matrix	Cat. No.	Unit
NEAT	P-843N	10 mg
100 µg/mL in AcCN	P-843S-CN	1 mL

Bueno

Monosodium acid methane arsonate



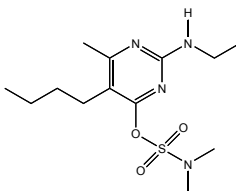
MSMA

CAS 2163-80-6 **MF** CH₃AsNaO₃ **MW** 161.95
PS S **SG** 1.54 g/cm³ **MP** 113-116 °C **SOL** M

Matrix	Cat. No.	Unit
NEAT	P-279N	10 mg
100 µg/mL in MeOH	P-279S	1 mL

Bupirimate

5-Butyl-2-ethylamino-6-methylpyrimidin-4-yl dimethylsulfamate

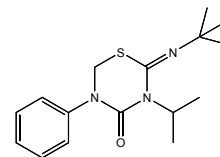


CAS 41483-43-6 **MF** C₁₃H₂₄N₄O₃S **MW** 316.47 **S** L
SG 1.20 g/cm³ **BP** 463 °C **FP** 234 °C **SOL** M,A,CN

Matrix	Cat. No.	Unit
NEAT	P-672N	10 mg
100 µg/mL in MeOH	P-672S	1 mL

Buprofezin

2-tert-butylimino-3-isopropyl-5-phenyl-1,3,5-thiadiazinan-4-one

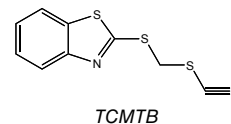


CAS 69327-76-0 **MF** C₁₆H₂₃N₃OS **MW** 305.44
PS SSG 1.12 g/cm³ **MP** 104.5-105.5 °C **BP** 395 °C
FP 193 °C **SOL** M,A,H,T,CN,EA,D

Matrix	Cat. No.	Unit
NEAT	P-595N	10 mg
100 µg/mL in MeOH	P-595S	1 mL

Busan ▲

2-(Thiocyanomethylthio)benzothiazole



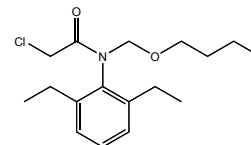
TCMTB

CAS 21564-17-0 **MF** C₉H₈N₂S₃ **MW** 238.35 **PS** L
SG 1.47 g/cm³ **BP** 406 °C **FP** 199 °C **SOL** M,CN,EA

Matrix	Cat. No.	Unit
100 µg/mL in AcCN	P-072S-CN	1 mL

*Busan 40, see Potassium n-hydroxymethyl-n-methyl dithiocarbamate**Busan 85, see Potassium dimethyl dithiocarbamate***Butachlor**

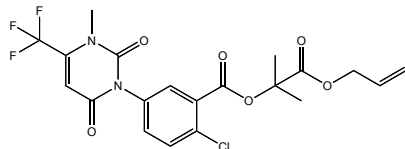
N-Butoxymethyl-2-chloro-2',6'-diethylacetanilide



Machette

CAS 23184-66-9 **MF** C₁₇H₂₆ClNO₂ **MW** 311.89
PS L **SG** 1.07 g/cm³ **MP** -5 °C
SOL M,A,D,H,T,CN,EA

Matrix	Cat. No.	Unit
NEAT	P-191N	10 mg
100 µg/mL in MeOH	P-191S	1 mL
1000 µg/mL in MeOH	P-191S-10X	1 mL

**Butafenacil**

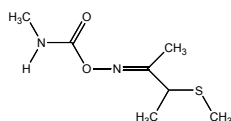
CAS 134605-64-4 **MF** C₂₀H₁₈ClF₃N₂O₆ **MW** 474.81
PS S **SG** 1.41 g/cm³ **MP** 113 °C **BP** 539 °C
FP 280 °C **SOL** M,CN

Matrix	Cat. No.	Unit
NEAT	P-940N	10 mg
100 µg/mL in MeOH	P-940S	1 mL

Butam, see *Tebutam*

Butocarboxim

3-(Methylthio)butanone O-methylcarbamoyloxime



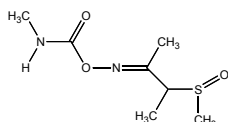
CAS 34681-10-2 **MF** C₇H₁₄N₂O₂S **MW** 190.29
PS S **SG** 1.12 g/cm³ **MP** 25 °C **SOL** M,CN,A,W

Matrix	Cat. No.	Unit
NEAT	P-518N	10 mg
100 µg/mL in MeOH	P-518S	1 mL

Butocarboxim sulfone, see *Butoxycarboxim*

Butocarboxim sulfoxide

3-(methylsulphonyl)butan-2-one O-[(methylamino) carbonyl]oxime



CAS 34681-24-8 **MF** C₇H₁₄N₂O₃S **MW** 206.26
PS S **SG** 1.25 g/cm³ **MP** 62-63 °C **SOL** M,CN

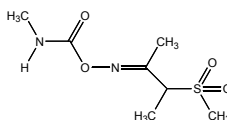
Matrix	Cat. No.	Unit
NEAT	P-701N	10 mg
100 µg/mL in MeOH	P-701S	1 mL

Butoflin, see *Deltamethrin*

Butopyronoxyl, see *Indalone*

Butoxycarboxim

3-Mesybutanone O-methylcarbamoyloxime



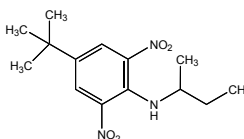
Butocarboxim sulfone

CAS 34681-23-7 **MF** C₇H₁₄N₂O₃S **MW** 222.26 **PS S**
SG 1.26 g/cm³ **MP** 85-89 °C **SOL** A,T,IPA,CN,W

Matrix	Cat. No.	Unit
NEAT	P-822N	10 mg
100 µg/mL in AcCN	P-822S-CN	1 mL

Butralin

N-sec-Butyl-4-tert-butyl-2,6-dinitroaniline

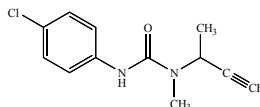


CAS 33629-47-9 **MF** C₁₄H₂₁N₃O₄ **MW** 295.33 **PS S**
SG 1.06 g/cm³ **MP** 61 °C **BP** 135 °C **FP** 184 °C
SOL M,A,CN,TP,EA,D

Matrix	Cat. No.	Unit
NEAT	P-574N	10 mg
100 µg/mL in MeOH	P-574S	1 mL

Buturon

3-(4-Chlorophenyl)-1-methyl-1-(1-methylprop-2-ynyl)-urea

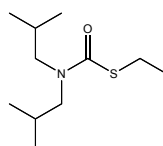


CAS 3766-60-7 **MF** C₁₂H₁₃ClN₂O **MW** 236.72
PS S **SG** 1.23 g/cm³ **BP** 395 °C **FP** 193 °C
SOL M,A,CN

Matrix	Cat. No.	Unit
NEAT	P-301N	10 mg
100 µg/mL in MeOH	P-301S	1 mL

Butylate

S-Ethyl di-isobutylthiocarbamate



Sutan

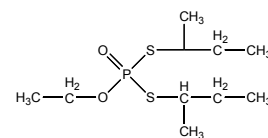
CAS 2008-41-5 **MF** C₁₁H₂₃NOS **MW** 217.37
PS L **SG** 0.94 g/cm³ **BP** 138 °C **FP** 115 °C
SOL M,A,D,H,T,CN,TP,EA

Matrix	Cat. No.	Unit
NEAT	P-088N	10 mg
100 µg/mL in MeOH	P-088S	1 mL
1000 µg/mL in MeOH	P-088S-10X	1 mL

Cacodylic acid, see *Dimethylarsinic acid*

Cadusafos

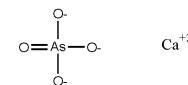
O-Ethyl-S,S-bis(1-methylpropyl)phosphorodithioate



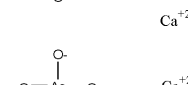
Apache, Ebufos

CAS 95465-99-9 **MF** C₁₀H₂₂O₂PS₂ **MW** 270.39
P L **SG** 1.05 g/cm³ **BP** 113 °C **FP** 129 °C
SOL A,CN,D,EA,T,M,IPA,W

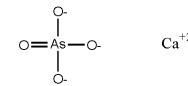
Matrix	Cat. No.	Unit
NEAT	P-794N	10 mg
100 µg/mL in MeOH	P-794S	1 mL

Calcium arsenate

Ca²⁺



Ca²⁺



Ca²⁺

CAS 7778-44-1 **MF** As₂Ca₃O₈ **MW** 398.07 **PS S**
SG 3.62 g/cm³ **MP** Decomp. **BP** Decomp.
SOL M,EA,A,H

Matrix	Cat. No.	Unit
NEAT	P-1076N	10 mg

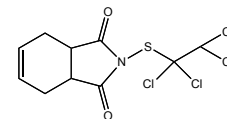
Calirus, see *Benodanil*

Calypso, see *Thiacloprid*

Camphechlor, see *Toxaphene*

Captafol

N-(1,1,2,2-Tetrachloroethylthio)cyclohex-4-ene-1,2-dicarboximide



CAS 2425-06-1 **MF** C₁₀H₉Cl₄NO₂ **MW** 349.06
PS S **SG** 1.75 g/cm³ **MP** 160-161 °C **FP** >100 °C
SOL M,A,D,H,T,CN,TP,EA,IPA,DMSO

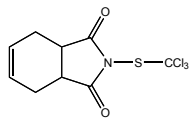
Matrix	Cat. No.	Unit
NEAT	P-254N	10 mg
100 µg/mL in MeOH	P-254S	1 mL



Pesticide Standards

Captan

N-(Trichloromethylthio)cyclohex-4-ene-1,2-dicarboximide



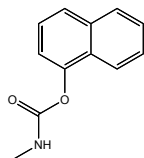
CAS 133-06-2 **MF** C₉H₉Cl₃NO₂S **MW** 300.59
PS S **SG** 1.74 g/cm³ **MP** 178 °C
SOL M,A,D,H,T,CN,TP,EA, IPA

Matrix	Cat. No.	Unit
NEAT	P-182N	10 mg
100 µg/mL in MeOH	P-182S	1 mL

Capture, see Bifenthrin

Carbaryl

Methylcarbamic acid, 1-naphthyl ester



Sevin

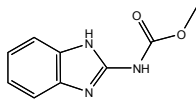
CAS 63-25-2 **MF** C₁₂H₁₁NO₂ **MW** 201.22 **PS** S
SG 1.23 g/cm³ **MP** 142 °C
SOL M,A,D,H,T,CN,EA,DMSO,IPA

Matrix	Cat. No.	Unit
NEAT	P-083N	10 mg
100 µg/mL in MeOH	P-083S	1 mL
1000 µg/mL in MeOH	P-083S-10X	1 mL

Carbathiin, see Carboxin

Carbendazim

Methyl benzimidazole-2-ylcarbamate



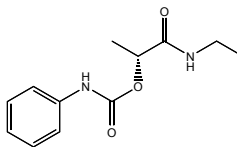
MBC

CAS 10605-21-7 **MF** C₉H₉N₃O₂ **MW** 191.19 **PS** S
SG 1.45 g/cm³ **MP** 305 °C **SOL** M,A,D,CN,EA

Matrix	Cat. No.	Unit
NEAT	P-278N	10 mg
100 µg/mL in MeOH	P-278S	1 mL

Carbetamide

(R)-1-(Ethylcarbamoyl)ethyl carbanilate

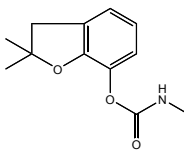


CAS 16118-49-3 **MF** C₁₂H₁₆N₂O₃ **MW** 236.27 **PS** S
SG 1.17 g/cm³ **MP** 119 °C **BP** 378 °C **FP** 183 °C
SOL M,A,CN,EA,D

Matrix	Cat. No.	Unit
NEAT	P-562N	10 mg
100 µg/mL in MeOH	P-562S	1 mL

Carbofuran

2,3-Dihydro-2,2-dimethyl-7-benzofuranyl methylcarbamate



Furadan

CAS 1563-66-2 **MF** C₁₂H₁₅NO₃ **MW** 221.25 **PS** S
SG 1.18 g/cm³ **MP** 154 °C
SOL M,A,D,H,T,CN,TP,EA,IPA,W

Matrix	Cat. No.	Unit
NEAT	P-106N	10 mg
100 µg/mL in MeOH	P-106S	1 mL
1000 µg/mL in MeOH	P-106S-10X	1 mL

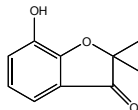
Carbofuran 3-hydroxy, see 3-Hydroxycarbofuran

Carbofuran-3-keto, see 3-Ketocarbofuran

Carbofuran phenol, see 2,3-Dihydro-2,2-dimethylbenzofuran-7-ol

Carbofuran phenol-3-ketone

2,3-Dihydro-2,2-dimethyl-7-benzofuranyl methylcarbamate phenol-3-ketone

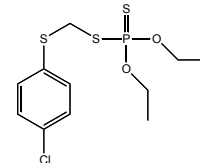


CAS 17781-16-7 **MF** C₁₀H₁₀O₃ **MW** 178.18 **SOL** M

Matrix	Cat. No.	Unit
100 µg/mL in MeOH	P-630S	1 mL

Carbophenothion

S-(4-Chlorophenylthiomethyl) O,O-diethylphosphorodithioate



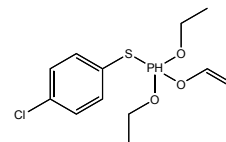
Garrathion, Phencapton, Trithion

CAS 786-19-6 **MF** C₁₁H₁₆ClO₂PS₂ **MW** 342.87
PS L **SG** 1.28 g/cm³ **BP** 82 °C
SOL M,A,D,H,T,CN,TP,EA

Matrix	Cat. No.	Unit
NEAT	P-095N	10 mg
100 µg/mL in MeOH	P-095S	1 mL

Carbophenothion methyl, see Methyl trithion

Carbophenothion methyl-o-analog

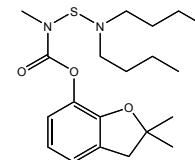


CAS 7332-32-3 **MF** C₁₁H₁₆ClO₃PS₂ **MW** 326.8
SOL EA

Matrix	Cat. No.	Unit
10 µg/mL in EA	P-637S-EA-0.1X	1 mL

Carbosulfan

2,3-Dihydro-2,2-dimethylbenzofuran-7-yl (dibutylaminothio)methylcarbamate

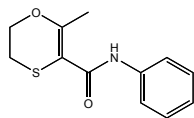


CAS 55285-14-8 **MF** C₂₀H₃₂N₂O₃S **MW** 380.55
PS L **SG** 1.05 g/cm³ **BP** 462 °C **FP** 233 °C
SOL M,A,T,CN,EA,D,H

Matrix	Cat. No.	Unit
NEAT	P-446N	10 mg
100 µg/mL in MeOH	P-446S	1 mL

**Carboxin**

5,6-Dihydro-2-methyl-1,4-oxathi-ine-3-carboxanilide

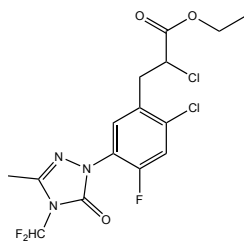
*Carbathiin*

CAS 5234-68-4 **MF** C₁₂H₁₃NO₃S **MW** 235.32
PS S SG 1.45 g/cm³ **MP** 91-92 °C
SOL M,A,D,H,CN,EA,T,W

Matrix	Cat. No.	Unit
NEAT	P-216N	10 mg
100 µg/mL in MeOH	P-216S	1 mL

Carfentrazone-ethyl

Ethyl-α,2-dichloro-5-[4-(difluoromethyl)-4,5-dihydro-3-methyl-5-oxo-1H-1,2,4-triazol-1-yl]-4-fluorobenzenepropanoate

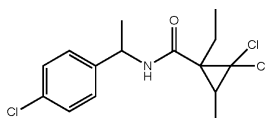


CAS 128639-02-1 **MF** C₁₅H₁₄Cl₂F₂N₃O₃ **MW** 412.19
PS L SG 1.53 g/cm³ **MP** -22.1 °C **BP** 353 °C
FP > 100 °C **SOL** M,A,CN,EA,T,H,D

Matrix	Cat. No.	Unit
100 µg/mL in AcCN	P-957S-CN	1 mL

Carpromamid

2,2-Dichloro-N-(1-(4-chlorophenyl)ethyl)-1-ethyl-3-methyl cyclopropanecarboxamide

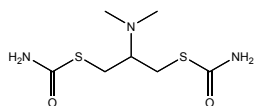


CAS 104030-54-8 **MF** C₁₅H₁₉Cl₂NO **MW** 334.67
PS S SG 1.30 g/cm³ **MP** 147-149 °C **BP** >400 °C
FP >200 °C

Matrix	Cat. No.	Unit
100 µg/mL in AcCN	P-1162S-CN	1 mL

Cartap

S,S'-(2-Dimethylaminotrimethylene) bis(thiocarbamate)

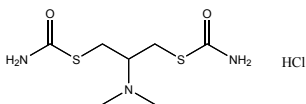


CAS 15263-53-3 **MF** C₇H₁₅N₃O₂S₂ **MW** 273.35
PS S SG 1.31 g/cm³ **MP** 179-181 °C **BP** 407 °C
FP 200 °C **SOL** H,T,A,M

Matrix	Cat. No.	Unit
100 µg/mL in MeOH	P-577S	1 mL

Cartap hydrochloride

S,S'-(2-Dimethylaminotrimethylene) bis(thiocarbamate) hydrochloride

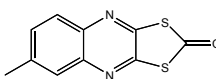


CAS 22042-59-7 **MF** C₇H₁₅N₃O₂S₂•HCl **MW** 237.35
PS S MP 187-188 °C **SOL** CN,W

Matrix	Cat. No.	Unit
NEAT	P-949N	10 mg

*Casoron, see Dichlobenil**CGA 219417, see Cyprodinil***Chinomethionate**

6-Methyl-1,3-dithio[4,5-b]quinoxalin-2-one

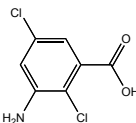
*Morestan, Oxythioquinox*

CAS 2439-01-2 **MF** C₁₀H₈N₂OS₂ **MW** 234.3 **PS S**
SG 1.56 g/cm³ **MP** 170 °C **SOL** T,D,H,M,A,CN,IPA

Matrix	Cat. No.	Unit
NEAT	P-399N	10 mg
100 µg/mL in Acetone	P-399S-A	1 mL

Chloramben

3-Amino-2,5-dichlorobenzoic acid

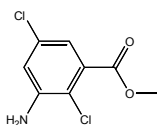
*Amiben*

CAS 133-90-4 **MF** C₇H₃Cl₂NO₂ **MW** 206.03
PS S SG 1.61 g/cm³ **MP** 194-201 °C **BP** 373 °C
FP 180 °C **SOL** M,A,CN

Matrix	Cat. No.	Unit
NEAT	P-243N	10 mg
100 µg/mL in MeOH	P-243S ▲	1 mL

Chloramben methyl ester

3-Amino-2,5-dichlorobenzoic acid methyl ester

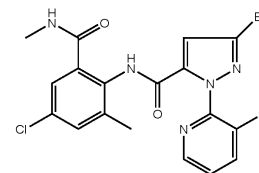


CAS 7286-84-2 **MF** C₈H₇Cl₂NO₂ **MW** 220.06 **PS L**
SG 1.43 g/cm³ **BP** 340 °C **FP** 160 °C **SOL** M,CN

Matrix	Cat. No.	Unit
NEAT	P-272N	10 mg
100 µg/mL in MeOH	P-272S	1 mL

*Chloramizol, see Imazalil***Chlorantraniliprole**

3-Bromo-4'-chloro-1-(3-chloro-2-pyridyl)-2'-methyl-6'-(methylcarbamoil)pyrazole-5-carboxanilide

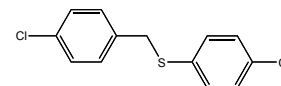
*Altacor*

CAS 500008-45-7 **MF** C₁₈H₁₄BrCl₂N₅O₂ **MW** 483.15
PS S SG 1.51 g/cm³ **MP** 209 °C **SOL** A,CN,D,EA,M

Matrix	Cat. No.	Unit
NEAT	P-952N	10 mg
100 µg/mL in MeOH	P-952S	1 mL

Chlorbenside

4-Chlorobenzyl 4-chlorophenyl sulfide

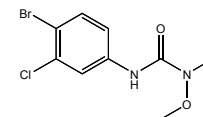


CAS 103-17-3 **MF** C₁₃H₉Cl₂S **MW** 269.19 **PS S**
SG 1.32 g/cm³ **MP** 70-72 °C **BP** 374 °C **FP** 168 °C
SOL M,D,H,CN

Matrix	Cat. No.	Unit
NEAT	P-107N	10 mg
100 µg/mL in MeOH	P-107S	1 mL
1000 µg/mL in MeOH	P-107S-10X	1 mL

Chlorbromuron

3-(4-Bromo-3-chlorophenyl)-1-methoxy-1-methylurea

*Maloran*

CAS 13360-45-7 **MF** C₉H₁₀BrClN₂O₂ **MW** 293.54
PS S SG 1.62 g/cm³ **MP** 95-97 °C
SOL A,D,H,M, CN

Matrix	Cat. No.	Unit
NEAT	P-520N	10 mg
100 µg/mL in MeOH	P-520S	1 mL

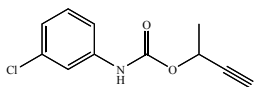
▲ Pesticides containing a carboxyl group may autoesterify in Methanol. These standards are intended for use after making the methyl derivative. For analysis of the parent compound we suggest a non-hydroxylic solvent such as Acetonitrile.



Pesticide Standards

Chlorbufam

1-Methylprop-2-ynyl 3-chlorocarbanilate

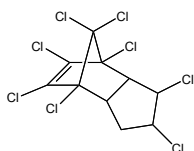


CAS 1967-16-4 **MF** C₁₁H₁₀ClNO₂ **MW** 223.66
PS S **SG** 1.28 g/cm³ **MP** 45 °C **BP** 270 °C
FP 117 °C **SOL** M,A,T,CN

Matrix	Cat. No.	Unit
NEAT	P-558N	10 mg
100 µg/mL in MeOH	P-558S	1 mL

Chlordane (tech)

1,2,4,5,6,7,8,8-Octachloro-2,3,3a,4,7,7a-hexahydro-4,7-methanoindene

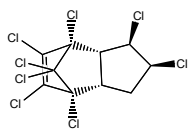
*Octachlor*

CAS 12789-03-6 **MF** C₁₀H₆Cl₈ **MW** 409.78
PS L **SG** 1.63 g/cm³ **MP** 104-107 °C **BP** 175 °C
SOL M,A,H,T,TP,IPA

Matrix	Cat. No.	Unit
NEAT	P-017N	10 mg
100 µg/mL in MeOH	P-017S	1 mL
1000 µg/mL in MeOH	P-017S-10X	1 mL
1000 µg/mL in Hexane	P-017S-H-10X	1 mL

a-Chlordane

(1alpha,2alpha,3aalpha,4beta,7beta,7aalpha)-1,2,4,5,6,7,8,8-Octachloro-2,3,3a,4,7,7a-hexahydro-4,7-methanoindene

*cis-Chlordane*

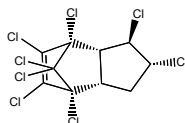
CAS 5103-71-9 **MF** C₁₀H₆Cl₈ **MW** 409.76 **PS** S
SG 1.80 g/cm³ **MP** 106 °C **BP** 425 °C **FP** 212 °C
SOL M,A,D,H,T,CN,TP,EA

Matrix	Cat. No.	Unit
NEAT	P-134N	10 mg
100 µg/mL in MeOH	P-134S	1 mL
100 µg/mL in Hexane	P-134S-H	1 mL

cis-Chlordane, see *a-Chlordane**trans-Chlordane*, see *g-Chlordane**Chlordecone*, see *Kepona*

g-Chlordane

(1alpha,2beta,3aalpha,4beta,7beta,7aalpha)-1,2,4,5,6,7,8,8-octachloro-2,3,3a,4,7,7a-hexahydro-4,7-Methano-1H-indene

*trans-Chlordane*

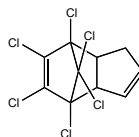
CAS 5103-74-2 **MF** C₁₀H₆Cl₈ **MW** 409.76 **PS** S
SG 1.80 g/cm³ **MP** 106 °C **BP** 425 °C **FP** 212 °C
SOL M,A,D,H,T,CN,TP,EA

Matrix	Cat. No.	Unit
NEAT	P-135N	10 mg
100 µg/mL in MeOH	P-135S	1 mL
1000 µg/mL in MeOH	P-135S-10X	1 mL

Chlordecone, see *Kepona*

Chlordene

4,5,6,7,8,8-Hexachloro-3a,4,7,7a-tetrahydro-4,7-methanoindene

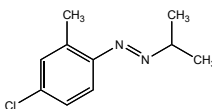


CAS 3734-48-3 **MF** C₁₀H₆Cl₆ **MW** 338.86 **PS** S
MP 165-170 °C **FP** 100 °C **SOL** M,A,H,T,TP

Matrix	Cat. No.	Unit
NEAT	P-136N	10 mg
100 µg/mL in MeOH	P-136S	1 mL

Chlordimeform

1-(2-Methyl-4-chlorophenyl)-3,3-dimethylformamidine

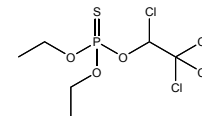


CAS 6164-98-3 **MF** C₁₀H₁₃ClN₂ **MW** 196.7 **PS** S
SG 1.10 g/cm³ **MP** 32-35 °C **BP** 300 °C
SOL M,A,D,CN,EA

Matrix	Cat. No.	Unit
NEAT	P-333N	10 mg
100 µg/mL in MeOH	P-333S	1 mL

Chlorethoxyfos

O,O-diethyl O-(1,2,2,2-tetrachloroethyl) phosphorothioate



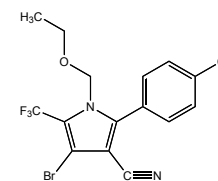
CAS 54593-83-8 **MF** C₆H₁₁Cl₄O₃PS **MW** 336.00
PS L **SG** 1.64 g/cm³ **BP** 110 °C **FP** 230 °C
SOL A,CN,H

Matrix	Cat. No.	Unit
NEAT	P-1017N	10 mg
100 µg/mL in AcCN	P-1017S-CN	1 mL

Chlorfenac, see *Fenatrol*

Chlorfenapyr

4-Bromo-2-(4-chlorophenyl)-1-ethoxymethyl-5-trifluoromethylpyrrole-3-carbonitrile

*Pirate*

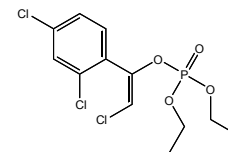
CAS 122453-73-0 **MF** C₁₅H₁₁BrClF₃N₂O **MW** 407.61
PS S **SG** 1.53 g/cm³ **MP** 100-101 °C **BP** 444 °C
FP 222 °C **SOL** M,A,D,H,T,CN,EA

Matrix	Cat. No.	Unit
NEAT	P-807N	10 mg
100 µg/mL in MeOH	P-807S	1 mL

Chlorfenson, see *Ovex*

Chlorfenvinphos

2-Chloro-1-(2,4-dichlorophenyl)vinyl diethylphosphate

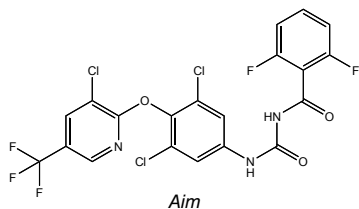
*Supona*

CAS 470-90-6 **MF** C₁₂H₁₄Cl₃O₄P **MW** 359.58
PS L **SG** 1.36 g/cm³ **MP** -20 °C **BP** 390 °C
FP <38 °C **SOL** M,A,D,H,T,CN,TP,EA

Matrix	Cat. No.	Unit
NEAT	P-139N	10 mg
100 µg/mL in MeOH	P-139S	1 mL

**Chlorfluazuron**

N-(((3,5-dichloro-4-((3-chloro-5-(trifluoromethyl)-2-pyridinyl)oxy)phenyl)amino)carbonyl)-2,6-difluorobenzamide



Aim

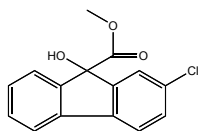
CAS 71422-67-8 **MF** C₂₀H₉Cl₃F₅N₃O₃ **MW** 540.65
PS S **SG** 1.66 g/cm³ **MP** 222-223 °C
SOL M,T,IPA,D,A,H,CN

Matrix	Cat. No.	Unit
100 µg/mL in AcCN	P-771S-CN	1 mL

Chlorfluorecol-methyl, see *Chlorfluorecol-methyl ester*

Chlorfluorecol-methyl ester

Methyl 2-chloro-9-hydroxyfluorene-9-carboxylate



Chlorfluorecol-methyl

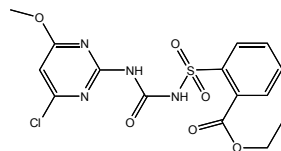
CAS 2536-31-4 **MF** C₁₄H₉ClO₃ **MW** 260.68 **PS** S
SG 1.42 g/cm³ **MP** 134-135 °C **BP** 426 °C
FP 212 °C **SOL** A,M,IPA,CN

Matrix	Cat. No.	Unit
NEAT	P-401N	10 mg
100 µg/mL in MeOH	P-401S	1 mL
1000 µg/mL in MeOH	P-401S-10X	1 mL

Chloridazon, see *Pyrazon*

Chlorimuron-ethyl

2-(((4-chloro-6-methoxy-2-pyrimidinyl)amino)carbonyl)amino)sulfonyl)benzoic acid ethyl ester



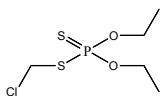
Classic

CAS 90982-32-4 **MF** C₁₅H₁₅ClN₃O₆S **MW** 414.82
PS S **SG** 1.49 g/cm³ **MP** 180-182 °C **SOL** A,H,CN

Matrix	Cat. No.	Unit
100 µg/mL in AcCN	P-284S-CN	1 mL

Chlormephos

S-Chloromethyl O,O-diethyl phosphorothioate

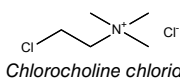


CAS 24934-91-6 **MF** C₅H₁₂ClO₂PS₂ **MW** 234.71
PS L **SG** 1.26 g/cm³ **BP** 81-85 °C **SOL** M,A,D,CN

Matrix	Cat. No.	Unit
NEAT	P-329N	10 mg
100 µg/mL in MeOH	P-329S	1 mL

Chlormequat chloride

(2-Chloroethyl)trimethylammonium chloride



Chlorocholine chloride

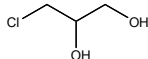
CAS 999-81-5 **MF** C₅H₁₄ClN • Cl **MW** 158.09 **PS** S
SG 1.14 g/cm³ **MP** 245 °C **SOL** M,A,EA

Matrix	Cat. No.	Unit
NEAT	P-338N	10 mg
100 µg/mL in MeOH	P-338S	1 mL

Chlormesulon, see *Sulcotrione*

3-Chloro-1,2-propanediol

3-Chloro-1,2-propanediol

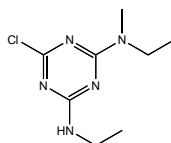


CAS 96-24-2 **MF** C₃H₇ClO₂ **MW** 110.55 **PS** L
SG 1.32 g/cm³ **BP** 216-219 °C **FP** 113 °C
SOL M,D,H,EA

Matrix	Cat. No.	Unit
NEAT	P-408N	10 mg
100 µg/mL in MeOH	P-408S	1 mL

2-Chloro-4-ethylamino-6-methylethylamino-s-triazine

2-Chloro-4-ethylamino-6-methylethylaminotriazine

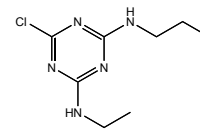


CAS N/A **MF** C₈H₁₄ClN₃ **MW** 215.68 **SOL** MC

Matrix	Cat. No.	Unit
NEAT	P-539N	10 mg
100 µg/mL in MC	P-539S-MC	1 mL

2-Chloro-4-ethylamino-6-propylamino-s-triazine

2-Chloro-4-ethylamino-6-propylamino-1,3,5-triazine

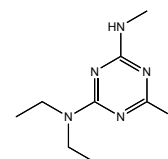


CAS 90952-64-0 **MF** C₈H₁₄ClN₃ **MW** 215.68 **SOL** MC

Matrix	Cat. No.	Unit
NEAT	P-537N	10 mg
100 µg/mL in MC	P-537S-MC	1 mL

2-Chloro-4-methylamino-6-diethylamino-s-triazine

2-Chloro-4-methylamino-6-diethylaminotriazine

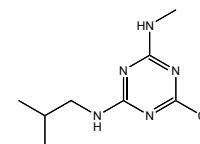


CAS N/A **MF** C₈H₁₄ClN₃ **MW** 215.68 **SOL** MC

Matrix	Cat. No.	Unit
NEAT	P-541N	10 mg
100 µg/mL in MC	P-541S-MC	1 mL

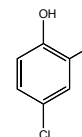
2-Chloro-4-methylamino-6-sec-butylamino-s-triazine

2-Chloro-4-methylamino-6-secbutylaminotriazine



CAS N/A **MF** C₈H₁₄ClN₃ **MW** 215.68 **SOL** MC

Matrix	Cat. No.	Unit
NEAT	P-540N	10 mg
100 µg/mL in MC	P-540S-MC	1 mL

4-Chloro-2-methylphenol

CAS 1570-64-5 **MF** C₇H₇ClO **MW** 142.58 **PS** S
SG 1.23 g/cm³ **MP** 51 °C **BP** 223 °C **FP** 78 °C
SOL M,A,D,H,CN,EA

Matrix	Cat. No.	Unit
NEAT	P-1026N	10 mg
100 µg/mL in MeOH	P-1026S	1 mL

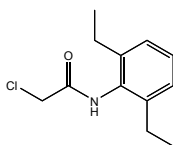
4-Chloro-o-tolylloxycetic acid, methyl ester, see *MCPA methyl ester*



Pesticide Standards

2-Chloro-2',6'-diethylacetanilide

2-Chloro-2',6'-diethylacetanilide

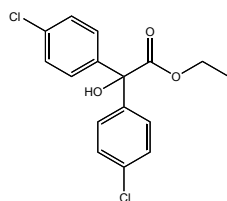


CAS 6967-29-9 **MF** C₁₂H₁₆ClNO **MW** 225.72
PS S **SG** 1.13 g/cm³ **MP** 128-130 °C **BP** 369 °C
FP 177 °C **SOL** M

Matrix	Cat. No.	Unit
NEAT	P-620N	10 mg
100 µg/mL in MeOH	P-620S	1 mL

Chlorobenzilate

Ethyl-4,4'-Dichlorobenzilate

*Folbex*

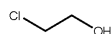
CAS 510-15-6 **MF** C₁₆H₁₄Cl₂O₃ **MW** 325.19 **PS** S
SG 1.28 g/cm³ **MP** 37 °C **BP** 415 °C
SOL M,A,D,H,T,CN,TP,EA

Matrix	Cat. No.	Unit
NEAT	P-133N	10 mg
100 µg/mL in AcCN	P-133S-CN	1 mL
1000 µg/mL in AcCN	P-133S-CN-10X	1 mL

Chlorocholine chloride, see *Chlormequat chloride*

2-Chloroethanol

Ethylene chlorhydrin



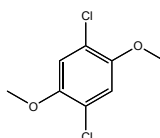
CAS 107-07-3 **MF** C₂H₅ClO **MW** 80.51 **PS** L
SG 1.20 g/cm³ **MP** -63 °C **BP** 128-129 °C
FP 55 °C **SOL** M,D,CN,TP

Matrix	Cat. No.	Unit
NEAT	P-1079N	10 mg
100 µg/mL in MeOH	P-1079S	1 mL

▲ Pesticides containing a carboxyl group may autoesterify in Methanol. These standards are intended for use after making the methyl derivative. For analysis of the parent compound we suggest a non-hydroxylic solvent such as Acetonitrile.

Chloroneb

1,4-Dichloro-2,5-dimethoxybenzene

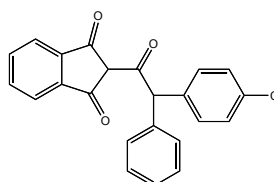
*Demosan, Terraneb*

CAS 2675-77-6 **MF** C₈H₈Cl₂O₂ **MW** 207.06 **PS** S
SG 1.28 g/cm³ **MP** 133-135 °C **BP** 268 °C
FP 106 °C **SOL** M,A,D,H,T,CN,TP,EA

Matrix	Cat. No.	Unit
NEAT	P-212N	10 mg
100 µg/mL in MeOH	P-212S	1 mL

Chlorophacinone

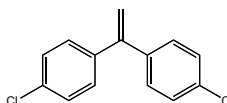
2-[2-(4-Chlorophenyl)-2-phenylacetyl]indan-1,3-dione

*Rozol*

CAS 3691-35-8 **MF** C₂₃H₁₅ClO₃ **MW** 374.83 **PS** S
MP 140-144 °C **SOL** M,A,CN,H,EA,W

Matrix	Cat. No.	Unit
NEAT	P-314N	10 mg
100 µg/mL in MeOH	P-314S	1 mL

1,1-bis(4-Chlorophenyl)ethylene



CAS 2642-81-1 **MF** C₁₄H₁₀Cl₂ **MW** 249.13 **PS** S
SG 1.21 g/cm³ **MP** 86-88 °C **BP** 349-350 °C
FP 159 °C **SOL** M,D,H

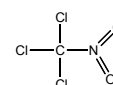
Matrix	Cat. No.	Unit
NEAT	P-1054N	10 mg
100 µg/mL in MeOH	P-1054S	1 mL

4-Chlorophenyl 2,4,5-trichlorophenyl sulfide, see *Tetrasul*

Chlorophos, see *Trichlorfon*

Chloropicrin

Trichloronitromethane

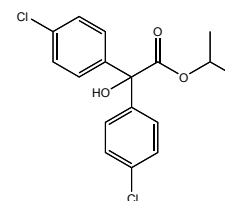
*Nitrochloroform*

CAS 76-06-2 **MF** CCl₃NO₂ **MW** 164.37 **PS** L
SG 1.66 g/cm³ **MP** -64 °C **BP** 112 °C
SOL M,A,TP,H,W

Matrix	Cat. No.	Unit
NEAT	P-398N	10 mg
100 µg/mL in MeOH	P-398S	1 mL
1000 µg/mL in MeOH	P-398S-10X	1 mL

Chloropropylate

Isopropyl 4,4'-dichlorobenzilate

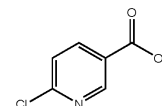


CAS 5836-10-2 **MF** C₁₈H₁₆Cl₂O₃ **MW** 339.23
PS S **SG** 1.30 g/cm³ **MP** 73 °C **BP** 360 °C
FP 231 °C **SOL** A,D,H,T,M,CN,TP

Matrix	Cat. No.	Unit
NEAT	P-213N	10 mg
100 µg/mL in MeOH	P-213S	1 mL

6-Chloropyridine-3-carboxylic acid

6-Chloronicotinic acid

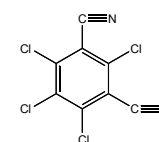


CAS 5326-23-8 **MF** C₆H₄ClNO₂ **MW** 157.55 **PS** S
SG 1.50 g/cm³ **MP** 190-192 °C **FP** 150 °C **SOL** M

Matrix	Cat. No.	Unit
NEAT	P-1267N	10 mg
100 µg/mL in MeOH	P-1267S ▲	1 mL

Chlorothalonil

Tetrachloroisophthalonitrile

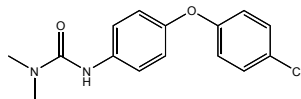
*Daconil*

CAS 1897-45-6 **MF** C₈Cl₄N₂ **MW** 265.91 **PS** S
SG 1.71 g/cm³ **MP** 250-251 °C **BP** 350 °C
SOL M,A,D,H,T,CN,TP,EA

Matrix	Cat. No.	Unit
NEAT	P-222N	10 mg
100 µg/mL in MeOH	P-222S	1 mL
1000 µg/mL in MeOH	P-222S-10X	1 mL

**Chloroxuron**

3-[4-(4-chlorophenoxy)phenyl]-1,1-dimethylurea

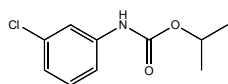


CAS 1982-47-4 **MF** C₁₅H₁₅ClN₂O₂ **MW** 290.77
PS S **SG** 1.27 g/cm³ **MP** 151 °C **BP** 459 °C
FP 232 °C **SOL** M,A,D,CN,EA,T

Matrix	Cat. No.	Unit
NEAT	P-402N	10 mg
100 µg/mL in MeOH	P-402S	1 mL

Chlorpropham

3-Chlorophenylcarbamic acid 1-methylethyl ester



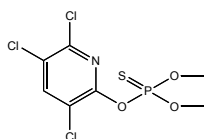
Isopropyl 3-chlorocarbanilate

CAS 101-21-3 **MF** C₁₀H₁₂ClNO₂ **MW** 213.66 **PS S**
SG 1.18 g/cm³ **MP** 41 °C **BP** 257 °C
SOL M,A,D,H,T,CN,TP,EA

Matrix	Cat. No.	Unit
NEAT	P-221N	10 mg
100 µg/mL in MeOH	P-221S	1 mL

*Chlorpyrifos, see Dursban**Chlorpyrifos-0-analog, see Chlorpyrifos oxon***Chlorpyrifos-methyl**

O,O-Dimethyl O-3,5,6-trichloro-2-pyridylphosphorothioate



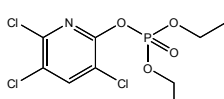
Reldan

CAS 5598-13-0 **MF** C₈H₅Cl₃NO₃PS **MW** 322.53
PS S **SG** 1.64 g/cm³ **MP** 46 °C **FP** >100 °C
SOL M,A,D,H,T,CN,TP,EA

Matrix	Cat. No.	Unit
NEAT	P-223N	10 mg
100 µg/mL in MeOH	P-223S	1 mL

*Chlorthal acid, see DCPA Diacid***Chlorpyrifos-oxon**

Diethyl-3,5,6-trichloro-2-pyridinyl phosphate



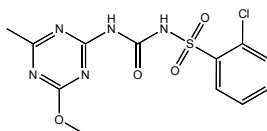
Chlorpyrifos-0-analog

CAS 5598-15-2 **MF** C₈H₁₁Cl₃NO₄P **MW** 334.53
PS S **SG** 1.46 g/cm³ **MP** 83-84 °C **BP** 358 °C
FP 170 °C **SOL** M,A,D,CN,TP

Matrix	Cat. No.	Unit
NEAT	P-700N	10 mg
100 µg/mL in MeOH	P-700S	1 mL

Chlorsulfuron

1-(2-chlorophenylsulfonyl)-3-(4-methoxy-6-methyl-1,3,5-triazin-2-yl)urea

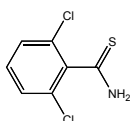


CAS 64902-72-3 **MF** C₁₂H₁₂ClN₃O₄S **MW** 357.77
PS S **SG** 1.48 g/cm³ **MP** 174-178 °C **BP** ~192 °C
SOL A,D,M,T,CN,EA,H,W

Matrix	Cat. No.	Unit
NEAT	P-262N	10 mg
100 µg/mL in AcCN	P-262S-CN	1 mL

Chlorthiamid

2,6-Dichlorothiobenzamide

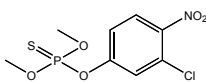


CAS 1918-13-4 **MF** C₇H₅Cl₂NS **MW** 206.09
PS S **SG** 1.47 g/cm³ **MP** 151-152 °C **BP** 321 °C
FP 148 °C **SOL** M,CN,W

Matrix	Cat. No.	Unit
NEAT	P-673N	10 mg
100 µg/mL in MeOH	P-673S	1 mL

Chlorthion

O-3-Chloro-4-nitrophenyl O,O-dimethyl phosphorothioate

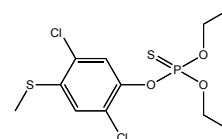


CAS 500-28-7 **MF** C₈H₉ClNO₃PS **MW** 297.65
PS S or **L** **SG** 1.44 g/cm³ **MP** 21 °C **BP** 367 °C
FP 176 °C **SOL** M,CN

Matrix	Cat. No.	Unit
100 µg/mL in MeOH	P-674S	1 mL

Chlorthiophos

O-(Dichloro(methylthio)phenyl) O,O-diethyl phosphorothioate, mixed isomers

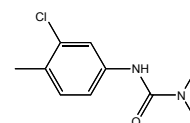


CAS 60238-56-4 **MF** C₁₁H₁₅Cl₂O₃PS₂ **MW** 361.25
PS S **SG** 1.46 g/cm³ **SOL** M,A,D,CN

Matrix	Cat. No.	Unit
NEAT	P-545N	10 mg
100 µg/mL in MeOH	P-545S	1 mL

Chlortoluron

3-(3-Chloro-p-tolyl)-1,1-dimethylurea

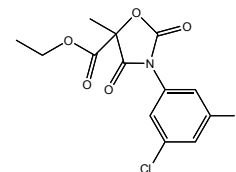


CAS 15545-48-9 **MF** C₁₀H₁₃ClN₂O **MW** 212.68
PS S **SG** 1.22 g/cm³ **MP** 146-148 °C **BP** 368 °C
FP 176 °C **SOL** M,A,D,CN,EA,T

Matrix	Cat. No.	Unit
NEAT	P-434N	10 mg
100 µg/mL in MeOH	P-434S	1 mL

Chlozolinate

Ethyl-3-(3,5-dichlorophenyl)-5-methyl-2,4-dioxo-5-oxazolidinecarboxylate



CAS 84332-86-5 **MF** C₁₃H₁₁Cl₂NO₅ **MW** 332.15
PS S **SG** 1.48 g/cm³ **MP** 110 - 114 °C **BP** 421 °C
FP 208 °C **SOL** M,CN,EA

Matrix	Cat. No.	Unit
100 µg/mL in AcCN	P-683S-CN	1 mL

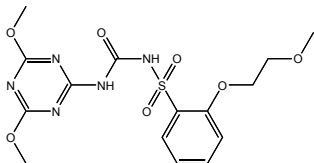
Ciafos, see Cyanophos



Pesticide Standards

Cinosulfuron

1-(4,6-Dimethoxy-1,3,5-triazin-2-yl)-
3-(2-(2-methoxyethoxy)phenylsulfonyl)urea

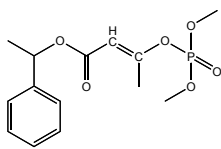


CAS 94593-91-6 **MF** C₁₅H₁₉N₅O₇S **MW** 413.41
PS S **SG** 1.47 g/cm³ **MP** 144.6 °C **FP** >144 °C
SOL A,T,M,CN,W

Matrix	Cat. No.	Unit
NEAT	P-823N	10 mg
100 µg/mL in AcCN	P-823S-CN	1 mL

Ciodrin

Dimethyl 2-(a-methylbenzylloxycarbonyl)-
1-methylvinylphosphate



Crotoxypfos

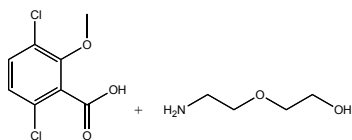
CAS 7700-17-6 **MF** C₁₄H₁₆O₆P **MW** 314.27 **PS** L
SG 1.20 g/cm³ **BP** 366 °C **FP** 188 °C
SOL M,A,D,H,CN,TP

Matrix	Cat. No.	Unit
100 µg/mL in MeOH	P-218S	1 mL

CIPC, see Chlorpropham

Clarity

3,6-Dichloro-o-anisic acid, 2-(2-aminoethoxy)
ethanol salt, tech



Dicamba, diglycoamine salt, tech

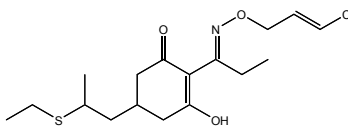
CAS 104040-79-1 **MF** C₈H₆Cl₂O₃•C₂H₅N₂O₂
MW 326.18 **PS** L **SG** 1.23 g/cm³ **BP** 498 °C
FP 255 °C **SOL** W

Matrix	Cat. No.	Unit
100 µg/mL in Water	P-495S-W	1 mL
1000 µg/mL in Water	P-495S-W-10X	1 mL

Classic, see Chlorimuron-ethyl

Clethodim

(E)-2-[1-[(3-Chloro-2-propenyl)oxy]imino]propyl]-5-
{2-(ethylthio)propyl}-3-hydroxy-2-cyclohexene-1-one



Select

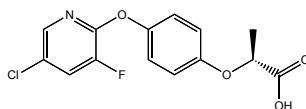
CAS 99129-21-2 **MF** C₁₇H₂₆ClNO₃S **MW** 359.91
PS S **SG** 1.38 g/cm³ **MP** 81 °C **BP** ~230 °C
FP >230 °C **SOL** M,A,EA,CN

Matrix	Cat. No.	Unit
100 µg/mL in AcCN	P-602S-CN	1 mL
1000 µg/mL in AcCN	P-602S-CN-10X	1 mL

Clipper, see Bonzi

Clodinafop

(R)-2-[4-(5-chloro-3-fluoro-2-pyridyloxy)phenoxy]
propionic acid

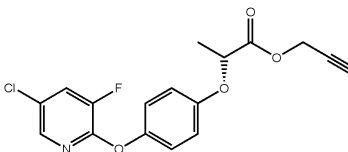


CAS 114420-56-3 **MF** C₁₄H₁₁ClFNO₄ **MW** 311.69
PS S **SG** 1.41 g/cm³ **MP** 172-173 °C
BP Decomp. @410 °C **FP** 202 °C **SOL** M

Matrix	Cat. No.	Unit
NEAT	P-1009N	10 mg
100 µg/mL in MeOH	P-1009S	1 mL

Clodinafop-propargyl

2-Propyn-1-yl (2R)-2-[4-[(5-chloro-3-fluoro-2-pyr-
idinyloxy]phenoxy]propanoate

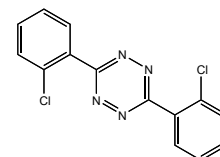


CAS 105512-06-9 **MF** C₁₇H₁₃ClFNO₄ **MW** 349.74
PS S **SG** 1.35 g/cm³ **MP** 57-60 °C **BP** 430-435 °C
FP 215 °C **SOL** A,EA,H,D,CN,M,T

Matrix	Cat. No.	Unit
NEAT	P-755N	10 mg
100 µg/mL in AcCN	P-755S-CN	1 mL

Clofentezine

3,6-bis(2-chlorophenyl)-1,2,4,5-tetrazine

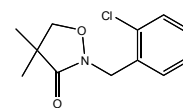


CAS 74115-24-5 **MF** C₁₄H₈Cl₂N₄ **MW** 303.15 **PS** S
SG 1.52 g/cm³ **MP** 182-185 °C **BP** 504 °C
FP 290 °C **SOL** M,A,T,CN,EA,D

Matrix	Cat. No.	Unit
NEAT	P-472N	10 mg
100 µg/mL in MeOH	P-472S	1 mL

Clomazon

2-(2-Chlorobenzyl)-4,4-dimethyl-
1,2-oxazolidin-3-one



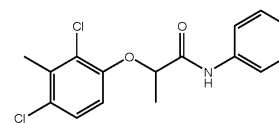
Command

CAS 81777-89-1 **MF** C₁₂H₁₄ClNO₂ **MW** 239.7
PS L **SG** 1.19 g/cm³ **MP** 25 °C **BP** 275 °C **FP** 70 °C
SOL A,CN,T,M,D,EA,H,W

Matrix	Cat. No.	Unit
100 µg/mL in MeOH	P-286S	1 mL

Clomeprop

2-(2,4-dichloro-3-methylphenoxy)-N-phenylpropana-
mide



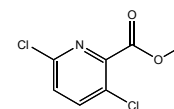
CAS 84496-56-0 **MF** C₁₆H₁₅Cl₂NO₂ **MW** 324.20
PS S **SG** 1.31 g/cm³ **MP** 146-147 °C **BP** 455 °C
FP 263 °C **SOL** A,DMSO,M,T

Matrix	Cat. No.	Unit
NEAT	P-1065N-5MG	5 mg
100 µg/mL in Acetone	P-1065S-A	1 mL

Clopyralid, see Lontrel

Clopyralid methyl ester

3,6-dichloropyridine-2-carboxylic acid, methyl ester

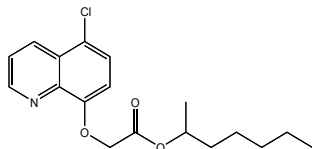


CAS 1532-24-7 **MF** C₇H₄Cl₂NO₂ **MW** 206.03
PS S **SG** 1.43 g/cm³ **MP** 60-61 °C **BP** 296 °C
FP 133 °C **SOL** M,A,D,H

Matrix	Cat. No.	Unit
100 µg/mL in MeOH	P-488S	1 mL

**Cloquintocet-mexyl**

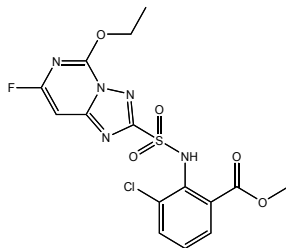
1-methylhexyl [(5-chloro-8-quinolinyl)oxy]acetate

**CAS** 99607-70-2 **MF** C₁₈H₂₂ClNO₃ **MW** 335.82
PS S **SG** 1.05 g/cm³ **MP** 69-70 °C **SOL** A,H,M,T,CN

Matrix	Cat. No.	Unit
NEAT	P-929N	10 mg
100 µg/mL in MeOH	P-929S	1 mL

Cloransulam methyl

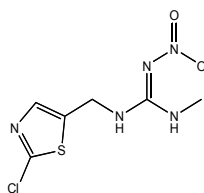
Methyl 3-chloro-2-[(5-ethoxy-7-fluoro-[1,2,4]triazolo[5,1-c]pyrimidin-2-yl)sulfonylamino]benzoate

**CAS** 147150-35-4 **MF** C₁₅H₁₃ClFNO₅S **MW** 429.81
PS S **SG** 1.54 g/cm³ **MP** 217 °C
SOL A,D,EA,M,CN,H

Matrix	Cat. No.	Unit
100 µg/mL in AcCN	P-981S-CN	1 mL

Clothianidin

(E)-1-(2-chloro-1,3-thiazol-5-ylmethyl)-3-methyl-2-nitroguanidine



Clutch

CAS 210880-92-5 **MF** C₆H₈ClN₂O₂S **MW** 249.68
PS S **SG** 1.68 g/cm³ **MP** 145-147 °C **BP** 435 °C
FP 217 °C **SOL** A,EA,D,M,CN,W

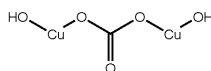
Matrix	Cat. No.	Unit
NEAT	P-947N	10 mg
100 µg/mL in MeOH	P-947S	1 mL

Clutch, see Clothianidin

Command, see Clomazon

Copper (II) carbonate

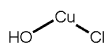
Copper(II) carbonate basic

**CAS** 12069-69-1 **MF** CH₂Cu₂O₅ **MW** 221.12 **PS** S
SG 4.0 g/cm³ **MP** Decomp. ~ 200 °C **SOL** M

Matrix	Cat. No.	Unit
NEAT	P-1074N	10 mg
100 µg/mL in MeOH	P-1074S	1 mL

Copper oxychloride

Dicopper chloride trihydroxide

No specified formula or molecular weight. Contains 57 % Cu⁺⁺.

Basic cupric chloride

CAS 1332-40-7 **PS** S **SG** 0.80 g/cm³ **MP** 300 °C
SOL H,D,M,T,W

Matrix	Cat. No.	Unit
NEAT	P-458N	10 mg

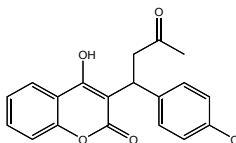
Co-Ral, see Coumaphos

Cotoran, see Fluometuron

Cottonex, see Fluometuron

Coumachlor

3-(a-Acetyl-4-chlorobenzyl)-4-hydroxycoumarin

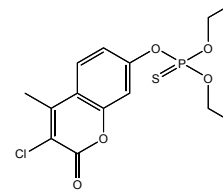
**CAS** 81-82-3 **MF** C₁₉H₁₅ClO₄ **MW** 342.77 **PS** S
SG 1.38 g/cm³ **MP** 168-170 °C **BP** 543 °C
FP 282 °C **SOL** M,A

Matrix	Cat. No.	Unit
100 µg/mL in MeOH	P-684S	1 mL

▲ Pesticides containing a carboxyl group may autoesterify in Methanol. These standards are intended for use after making the methyl derivative. For analysis of the parent compound we suggest a non-hydroxylic solvent such as Acetonitrile.

Coumaphos

O-3-Chloro-4-methyl-2-oxo-2H-chromen-7-yl O,O-diethyl phosphorothioate



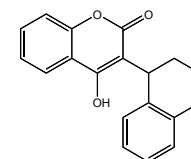
Co-Ral

CAS 56-72-4 **MF** C₁₄H₁₆ClO₃PS **MW** 362.77
PS S **SG** 1.47 g/cm³ **MP** 95 °C **FP** 100 °C
SOL M,A,D,H,T,CN,TP,EA

Matrix	Cat. No.	Unit
NEAT	P-019N	10 mg
100 µg/mL in MeOH	P-019S	1 mL
1000 µg/mL in Hexane	P-019S-H-10X	1 mL

Coumatetralyl

4-Hydroxy-3-(1,2,3,4-tetrahydro-1-naphthyl) coumarin



Racumin

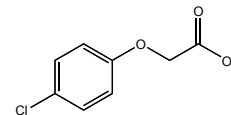
CAS 5836-29-3 **MF** C₉H₁₆O₃ **MW** 292.33 **PS** S
MP 172-176 °C **SOL** M,CN,D,IPA,W

Matrix	Cat. No.	Unit
NEAT	P-313N	10 mg
100 µg/mL in MeOH	P-313S	1 mL

Counter, see Terbufos

4-CPA

4-Chlorophenoxyacetic acid

**CAS** 122-88-3 **MF** C₈H₇ClO₃ **MW** 186.6 **PS** S
SG 1.37 g/cm³ **MP** 157-159 °C **BP** 315 °C
FP 144 °C **SOL** M,A,D,CN

Matrix	Cat. No.	Unit
NEAT	P-373N	10 mg
100 µg/mL in MeOH	P-373S ▲	1 mL

Crag Herbicide, see Disul, sodium salt

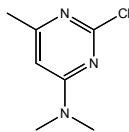
Crimidin, see Crimidine



Pesticide Standards

Crimidine

2-Chloro-4-dimethylamino-6-methylpyrimidine



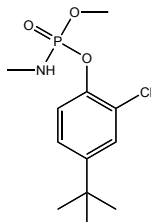
CAS 535-89-7 **MF** C₇H₁₀ClN₂ **MW** 171.63 **PS S**
SG 1.21 g/cm³ **MP** 87 °C **BP** 291 °C **FP** 130 °C
SOL M,EA,D,IPA

Matrix	Cat. No.	Unit
NEAT	P-561N	10 mg
100 µg/mL in MeOH	P-561S	1 mL

*Croneton, see Ethiofencarb**Croneton sulfone, see Ethiofencarb sulfone**Crotoxyphos, see Ciodrin*

Crufomate

4-tert-Butyl-2-chlorophenyl methyl methylphosphoramidate

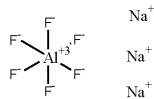


CAS 299-86-5 **MF** C₁₂H₁₉ClNO₃P **MW** 291.74
PS L **SG** 1.18 g/cm³ **MP** 60-60.5 °C **BP** 395 °C
FP 155 °C **SOL** M,T,CN

Matrix	Cat. No.	Unit
NEAT	P-292N	10 mg
100 µg/mL in MeOH	P-292S	1 mL

Cryolite

Sodium fluoroaluminate

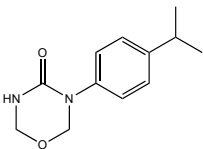


CAS 15096-52-3 **MF** AlF₆Na₃ **MW** 209.94 **PS S**
SG 2.9 g/cm³ **MP** 1012 °C **SOL** W

Matrix	Cat. No.	Unit
NEAT	P-1071N	10 mg

Cumyluron

1-(2-chlorobenzyl)-3-(1-methyl-1-phenylethyl)urea

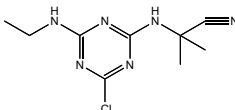


CAS 99485-76-4 **MF** C₁₂H₁₆N₂O₂ **MW** 220.27
PS S **SG** 1.16 g/cm³ **MP** 166 °C **FP** 258 °C
SOL A,H,M,CN

Matrix	Cat. No.	Unit
100 µg/mL in AcCN	P-1135S-CN	1 mL

Cyanazine

2-(4-Chloro-6-ethylamino-1,3,5-triazin-2-ylamino)-2-methylpropionitrile



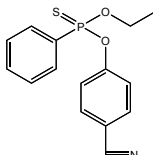
Bladex

CAS 21725-46-2 **MF** C₉H₁₃ClN₆ **MW** 240.69 **PS S**
SG 1.29 g/cm³ **MP** 168 °C **FP** 100 °C
SOL M,A,D,H,T,CN,TP,EA,W

Matrix	Cat. No.	Unit
NEAT	P-175N	10 mg
100 µg/mL in MeOH	P-175S	1 mL
1000 µg/mL in MeOH	P-175S-10X	1 mL

Cyanofenphos

4-cyanophenylethylphenyl phosphonothionate

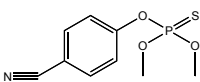


CAS 13067-93-1 **MF** C₁₅H₁₄NO₂PS **MW** 303.33
PS S **SG** 1.26 g/cm³ **MP** 83 °C **BP** 424 °C
FP 210 °C **SOL** M,A,CN

Matrix	Cat. No.	Unit
NEAT	P-584N	10 mg
100 µg/mL in MeOH	P-584S	1 mL

Cyanophos

O-4-Cyanophenyl O,O-dimethyl phosphorothioate



Ciafos, Cyanox

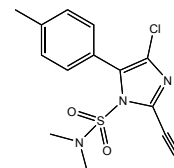
CAS 2636-26-2 **MF** C₉H₁₀NO₃PS **MW** 243.22
PS L **SG** 1.25 g/cm³ **MP** 14-15 °C **BP** ~119 °C
FP >100 °C **SOL** M,A,D

Matrix	Cat. No.	Unit
NEAT	P-531N	10 mg
100 µg/mL in MeOH	P-531S	1 mL

Cyanox, see Cyanophos

Cyazofamid

4-chloro-2-cyano-N,N-dimethyl-5-(4-methylphenyl)-1H-imidazol-1-sulfonamide



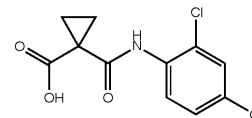
CAS 120116-88-3 **MF** C₁₃H₁₃ClN₄O₂S **MW** 324.79
PS S **SG** 1.45 g/cm³ **MP** 152-153 °C
SOL A,T,D,H,EA,CN,IPA,M

Matrix	Cat. No.	Unit
NEAT	P-969N	10 mg
100 µg/mL in MeOH	P-969S	1 mL

Cybutryne, see Irgarol

Cyclanilide

1-[[[(2,4-Dichlorophenyl)amino]carbonyl]cyclopropanecarboxylic acid

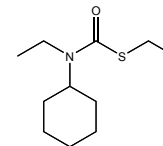


CAS 113136-77-9 **MF** C₁₁H₉Cl₂NO₃ **MW** 274.10
PS S **SG** 1.47 g/cm³ **MP** 189-190 °C **FP** >200 °C
SOL H,T,M,A,CN

Matrix	Cat. No.	Unit
100 µg/mL in AcCN	P-982S-CN	1 mL

Cycloate

S-Ethyl cyclohexyl(ethyl)thiocarbamate



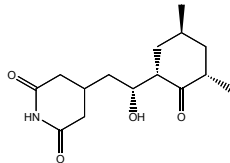
CAS 1134-23-2 **MF** C₁₁H₂₁NOS **MW** 215.36 **PS L**
SG 1.02 g/cm³ **MP** 12 °C **BP** 146 °C **FP** >100 °C
SOL M,A,H

Matrix	Cat. No.	Unit
NEAT	P-248N	10 mg
100 µg/mL in MeOH	P-248S	1 mL



Cycloheximide

3-[2-(3,5-Dimethyl-2-oxocyclohexyl)-2-hydroxyethyl] glutarimide

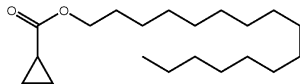


CAS 66-81-9 MF C₁₅H₂₃NO₄ MW 281.35 PS S
SG 1.14 g/cm³ MP 107-114 °C BP 492 °C
FP 252 °C SOL M,A

Matrix	Cat. No.	Unit
NEAT	P-411N	10 mg
100 µg/mL in MeOH	P-411S	1 mL

3-Cyclohexyl-5,6-trimethyleneuracil, see Lenacil

Cycloprate



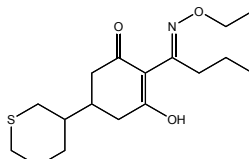
CAS 54460-46-7 MF C₂₀H₃₈O₂ MW 310.51 PS S
SG 0.92 g/cm³ MP 100-102 °C BP 366 °C
FP 189 °C SOL M

Matrix	Cat. No.	Unit
NEAT	P-1069N	10 mg
100 µg/mL in MeOH	P-1069S	1 mL

Cycloxydim, see Cycloxydime

Cycloxydime

(±)-2-[1-(ethoxyimino)butyl]-3-hydroxy-5-thian-3-ylcyclohex-2-enone



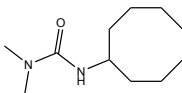
Cycloxydim, Focus

CAS 101205-02-1 MF C₁₇H₂₇NO₃S MW 325.51
PS S SG 1.14 g/cm³ MP 41 °C BP 450 °C
FP 226 °C SOL A,M,D,T,EA,H,CN

Matrix	Cat. No.	Unit
NEAT	P-735N	10 mg
100 µg/mL in MeOH	P-735S	1 mL

Cycluron

3-Cyclo-octyl-1,1-dimethylurea



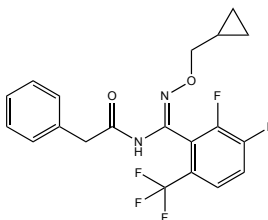
CAS 2163-69-1 MF C₁₁H₂₂N₂O MW 198.31
PS S SG 0.97 g/cm³ MP 138 °C SOL A,M,CN

Matrix	Cat. No.	Unit
100 µg/mL in AcCN	P-791S-CN	1 mL

Cyfoxylate, see Cyfluthrin

Cyflufenamide

(Z)-N-[a-(cyclopropylmethoxyimino)-2,3-difluoro-6-(trifluoromethyl)benzyl]-2-phenylacetamide

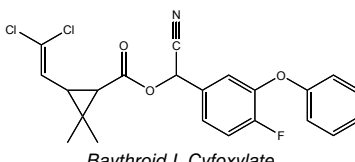


CAS 180409-60-3 MF C₂₀H₁₇F₅N₂O₂ MW 412.35
PS S SG 1.35 g/cm³ MP 62 °C BP 257 °C
SOL D,A,CN,M,EA,H

Matrix	Cat. No.	Unit
100 µg/mL in AcCN	P-975S-CN	1 mL

Cyfluthrin

3-(2,2-Dichloroethenyl)-2,2-dimethylcyclopropane-carboxylic acid, cyano(4-fluoro-3-phenoxyphenyl) methyl ester



Baythroid I, Cyfoxylate

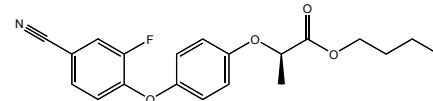
CAS 68359-37-5 MF C₂₂H₁₈Cl₂FNO₃ MW 434.31
PS S SG 1.28 g/cm³ MP 60 °C FP 107 °C
SOL M,A,D,H,T,CN,TP,EA,IPA

Matrix	Cat. No.	Unit
NEAT	P-354N	10 mg
100 µg/mL in MeOH	P-354S	1 mL

Cygon, see Dimethoate

Cyhalofop-butyl

(R)-2-[4(4-cyano-2-fluorobenzaldehyde oxy) phenoxy] - propionic acid

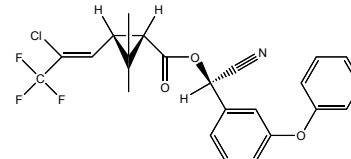


CAS 122008-85-9 MF C₂₀H₂₀FNO₄ MW 357.38
PS S SG 1.24 g/cm³ MP 48-49 °C BP 363 °C
SOL M,CN,A

Matrix	Cat. No.	Unit
NEAT	P-944N-5MG	5 mg
100 µg/mL in MeOH	P-944S	1 mL

L-Cyhalothrin

rel-(R)-cyano(3-phenoxyphenyl)methyl (1S,3S)-3-[(1Z)-2-chloro-3,3,3-trifluoro-1-propenyl]-2,2-dimethylcyclopropanecarboxylate



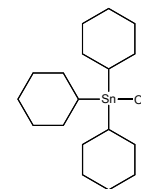
Icon, Karate

CAS 91465-08-6 MF C₂₃H₁₉ClF₃NO₃ MW 449.85
PS L SG 1.34 g/cm³ MP 49.2 °C BP 187-190 °C
FP 256 °C SOL M,A,D,H,T,CN,EA

Matrix	Cat. No.	Unit
NEAT	P-473N	10 mg
100 µg/mL in MeOH	P-473S	1 mL

Cyhexatin

Tricyclohexylhydroxystannane



Tricyclohexyltin hydroxide

CAS 13121-70-5 MF C₁₈H₃₄OSn MW 385.21 PS S
MP 195-198 °C BP 426 °C FP 212 °C
SOL M,D,T,A,CN

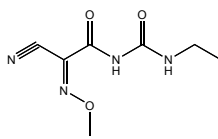
Matrix	Cat. No.	Unit
NEAT	P-375N	10 mg
100 µg/mL in MeOH	P-375S	1 mL

Cymetrin, see Simetryn



Cymoxanil

1-(2-cyano-2-methoxyiminoacetyl)-3-ethylurea

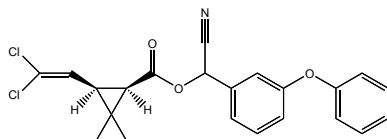


Zymoxanil

CAS 57966-95-7 **MF** C₁₀H₁₀N₃O₃ **MW** 198.18 **PS** S
SG 1.32 g/cm³ **MP** 160 °C **FP** >100 °C
SOL EA,A,T,H,W,M,CN,D

Matrix	Cat. No.	Unit
NEAT	P-493N	10 mg
100 µg/mL in MeOH	P-493S	1 mL

Cypermethrin

(RS)-alpha-Cyano-3-phenoxybenzyl
(1RS,3RS;1RS,3SR)-3-(2,2-dichlorovinyl)
2,2-dimethylcyclopropanecarboxylate

Polytrin, Siperin

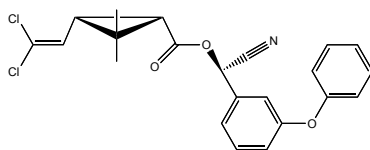
CAS 52315-07-8 **MF** C₂₂H₁₉Cl₂NO₃ **MW** 416.3
PS L **SG** 1.25 g/cm³ **MP** 60-80 °C **BP** 300 °C
FP 100 °C **SOL** M,A,D,H,T,CN,TP,EA

Matrix	Cat. No.	Unit
NEAT	P-225N	10 mg
100 µg/mL in MeOH	P-225S	1 mL

cis-Cypermethrin, see a-Cypermethrin

a-Cypermethrin

(R)-Cyano-3-phenoxybenzyl (1S,3S)-rel-3-(2,2-dichlorovinyl)-2,2-dimethylcyclopropane carboxylate

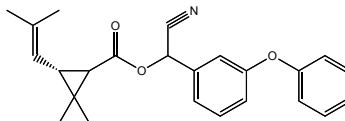


Alphamethrin, cis-Cypermethrin

CAS 67375-30-8 **MF** C₂₂H₁₉Cl₂NO₃ **MW** 416.3
PS S **SG** 1.12 g/cm³ **MP** 80.5 °C **BP** 200 °C
SOL T,M,EA,A,H,CN

Matrix	Cat. No.	Unit
NEAT	P-548N	10 mg
100 µg/mL in AcCN	P-548S-CN	1 mL

Cyphenothrin

(RS)-alpha-Cyano-3-phenoxybenzyl
(1R,3RS;1RS,3SR)-2,2-dimethyl-3-(2-methyl-1-prop-1-enyl)cyclopropanecarboxylate

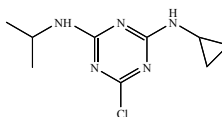
d-trans-Cyphenothrin, Gokilaht

CAS 39515-40-7 **MF** C₂₄H₂₅NO₃ **MW** 375.46 **PS** L
SG 1.08 g/cm³ **BP** 154 °C **FP** 130 °C **SOL** M,A,H

Matrix	Cat. No.	Unit
NEAT	P-709N	10 mg
100 µg/mL in MeOH	P-709S	1 mL

d-trans-Cyphenothrin, see Cyphenothrin

Cyprazine

6-Chloro-N₂-cyclopropyl-N₁-isopropyl-1,3,5-triazine-2,4-diamine

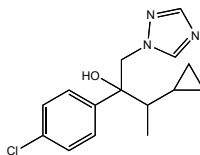
CAS 22936-86-3 **MF** C₉H₁₄ClN₅ **MW** 227.69
PS S **SG** 1.40 g/cm³ **MP** 165-167 °C **BP** 399 °C
FP 195 °C **SOL** M,H,CN,T

Matrix	Cat. No.	Unit
NEAT	P-420N	10 mg
100 µg/mL in MeOH	P-420S	1 mL
100 µg/mL in Hexane	P-420S-H	1 mL

Cyprex, see Dodine

Cyproconazole

2-(4-chlorophenyl)-3-cyclopropyl-1-(1H-1,2,4-triazol-1-yl)butan-2-ol



Cyproconazole, unstated stereochemistry

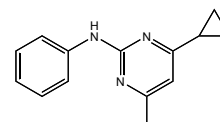
CAS 94361-06-5 **MF** C₁₅H₁₈ClN₃O **MW** 291.78
PS S **SG** 1.32 g/cm³ **MP** 107-108 °C **BP** 479 °C
FP 244 °C **SOL** A,M,DMSO,T,D,EA,H,CN

Matrix	Cat. No.	Unit
100 µg/mL in MeOH	P-555S	1 mL

Cyproconazole, unstated stereochemistry, see Cyproconazole

Cyprodinil

4-Cyclopropyl-6-methyl-N-phenylpyrimidin-2-amine

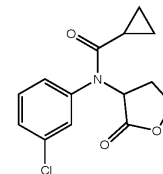


CGA 219417

CAS 121552-61-2 **MF** C₁₄H₁₅N₃ **MW** 225.29
PS S **SG** 1.21 g/cm³ **MP** 125-127 °C **BP** 406 °C
FP 199 °C **SOL** M,A,H,T,CN,D,EA

Matrix	Cat. No.	Unit
NEAT	P-720N	10 mg
100 µg/mL in MeOH	P-720S	1 mL

Cyprofuram

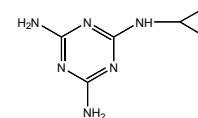
N-(3-Chlorophenyl)-N-(2-oxotetrahydro-3-furanyl)
cyclopropanecarboxamide

CAS 69581-33-5 **MF** C₁₁H₁₅ClNO₃ **MW** 279.72
PS S **SG** 1.42 g/cm³ **MP** 95 °C **BP** >450 °C
FP >200 °C **SOL** A,D

Matrix	Cat. No.	Unit
NEAT	P-1272N	10 mg
100 µg/mL in MeOH	P-1272S	1 mL

Cyromazine

N-cyclopropyl-1,3,5-triazine-2,4,6-triamine



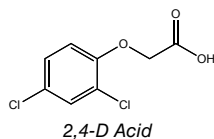
CAS 66215-27-8 **MF** C₆H₁₀N₆ **MW** 166.19 **PS** S
SG 1.62 g/cm³ **MP** 220-222 °C **BP** 481 °C
FP 224 °C **SOL** M,A,CN,D,H,IPA,W

Matrix	Cat. No.	Unit
NEAT	P-296N	10 mg
100 µg/mL in MeOH	P-296S	1 mL

2,3-D, see 2,3-Dichlorophenoxyacetic acid

**2,4-D**

(2,4-Dichlorophenoxy) acetic acid



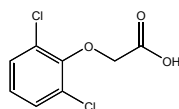
CAS 94-75-7 **MF** C₈H₆Cl₂O₃ **MW** 221.04 **SOL** T
SG 1.51 g/cm³ **MP** 140 °C **BP** 160 °C
SOL M,A,D,H,T,CN,EA,W

Matrix	Cat. No.	Unit
NEAT	P-020N	10 mg
100 µg/mL in MeOH	P-020S ▲	1 mL
1000 µg/mL in MeOH	P-020S-10X ▲	1 mL
100 µg/mL in AcCN	P-020S-CN	1 mL

2,4-D Acid, see 2,4-D

2,6-D acid

(2,6-Dichlorophenoxy) acetic acid

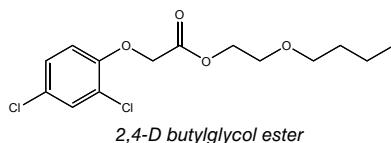


CAS 575-90-6 **MF** C₈H₆Cl₂O₃ **MW** 221.04 **PS** S
SG 1.49 g/cm³ **MP** 109-110 °C **BP** 343 °C
FP 161 °C **SOL** M,A,CN

Matrix	Cat. No.	Unit
NEAT	P-690N	10 mg
100 µg/mL in MeOH	P-690S ▲	1 mL
100 µg/mL in AcCN	P-690S-CN	1 mL

2,4-D butoxyethyl ester

2,4-Dichlorophenoxy acid butoxyethyl ester

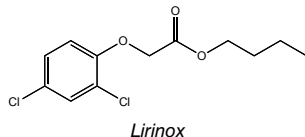


CAS 1929-73-3 **MF** C₁₄H₁₈Cl₂O₄ **MW** 321.22 **PS** L
SG 1.22 g/cm³ **BP** 409 °C **FP** 153 °C **SOL** D,H,CN

Matrix	Cat. No.	Unit
NEAT	P-438N	10 mg

2,4-D butyl ester

2,4-Dichlorophenoxy acetic acid butyl ester

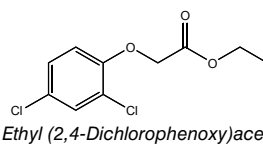


CAS 94-80-4 **MF** C₁₂H₁₄Cl₂O₃ **MW** 277.14 **PS** L
SG 1.24 g/cm³ **BP** 146-147 °C **FP** 132 °C **SOL** M

Matrix	Cat. No.	Unit
NEAT	P-712N	10 mg
100 µg/mL in MeOH	P-712S	1 mL

2,4-D butylglycol ester, see 2,4-D butoxyethyl ester**2,4-D Ethyl ester**

(2,4-Dichlorophenoxy)acetic acid ethyl ester

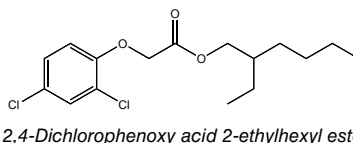


CAS 533-23-3 **MF** C₁₀H₁₀Cl₂O₃ **MW** 249.09 **PS** L
SG 1.31 g/cm³ **BP** 314 °C **FP** 127 °C **SOL** M,D,H,T

Matrix	Cat. No.	Unit
NEAT	P-636N	10 mg
100 µg/mL in MeOH	P-636S	1 mL

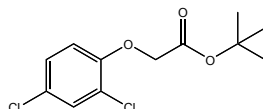
2,4-D ethylhexyl ester

2-Ethylhexyl-2,4-dichlorophenoxy acetate



CAS 1928-43-4 **MF** C₁₆H₂₂Cl₂O₃ **MW** 333.25 **PS** L
SG 1.15 g/cm³ **BP** 173-174 °C **SOL** A,H,CN

Matrix	Cat. No.	Unit
NEAT	P-439N	10 mg
100 µg/mL in Hexane	P-439S-H	1 mL

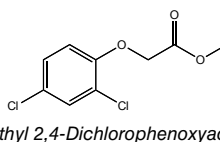
2,4-D isobutyl ester

CAS 1713-15-1 **MF** C₁₂H₁₄Cl₂O₃ **MW** 277.14 **PS** S
SG 1.24 g/cm³ **MP** 93 °C **BP** 338-339 °C
FP 129 °C **SOL** CN

Matrix	Cat. No.	Unit
NEAT	P-1027N	10 mg
100 µg/mL in AcCN	P-1027S-CN	1 mL

2,4-D Methyl ester

2,4-Dichlorophenoxy acid methyl ester

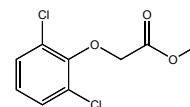


CAS 1928-38-7 **MF** C₉H₈Cl₂O₃ **MW** 235.07 **PS** S
SG 1.15 g/cm³ **BP** 141 °C **SOL** M,A,D,H,T,CN,TP

Matrix	Cat. No.	Unit
NEAT	P-021N	10 mg
100 µg/mL in MeOH	P-021S	1 mL

2,6-D methyl ester

(2,6-Dichlorophenoxy) methyl ester



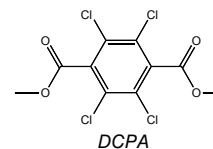
CAS N/A **MF** C₉H₈Cl₂O₃ **MW** 235.06 **PS** S

Matrix	Cat. No.	Unit
NEAT	P-691N	10 mg
100 µg/mL in MeOH	P-691S	1 mL

Daconil, see Chlorothalonil

Dacthal

Dimethyl 2,3,5,6-tetrachloro-1,4-benzenedicarboxylate



CAS 1861-32-1 **MF** C₁₀H₆Cl₄O₄ **MW** 331.96 **PS** S
SG 1.56 g/cm³ **MP** 155 - 156 °C **BP** ~360-370 °C
FP 175 °C **SOL** M,A,D,H,T,CN,TP,EA

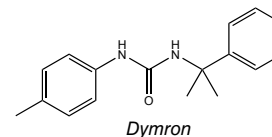
Matrix	Cat. No.	Unit
NEAT	P-196N	10 mg
100 µg/mL in MeOH	P-196S	1 mL

Dacthal diacid, see DCPA Diacid

Dacthal monoacid, see Monomethyltetrachloroterephthalate

Daimuron

N-(4-Methylphenyl)-N'-(1-methyl-1-phenylethyl)urea



CAS 42609-52-9 **MF** C₁₇H₂₀N₂O **MW** 268.35 **PS** L
SG 1.11 g/cm³ **BP** 394 °C **FP** 134 °C

Matrix	Cat. No.	Unit
100 µg/mL in AcCN	P-1087S-CN	1 mL

Dalapon, see Dalapon acid

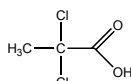
▲ Pesticides containing a carboxyl group may autoesterify in Methanol. These standards are intended for use after making the methyl derivative. For analysis of the parent compound we suggest a non-hydroxylic solvent such as Acetonitrile.



Pesticide Standards

Dalapon acid

2,2-Dichloropropionic acid



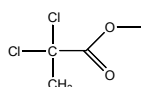
Dalapon

CAS 75-99-0 **MF** C₃H₂Cl₂O₂ **MW** 142.97 **PS** L
SG 1.40 g/cm³ **MP** 166 °C **BP** 202 °C **FP** >110 °C
SOL M,A,H,T,CN,TP

Matrix	Cat. No.	Unit
NEAT	P-140N	10 mg
100 µg/mL in MeOH	P-140S ▲	1 mL
1000 µg/mL in MeOH	P-140S-10X ▲	1 mL
100 µg/mL in AcCN	P-140S-CN	1 mL

Dalapon methyl ester

2,2-Dichloropropanoic acid methyl ester



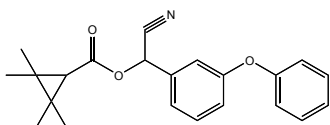
CAS 17640-02-7 **MF** C₃H₂Cl₂O₂ **MW** 157 **PS** L
SG 1.30 g/cm³ **BP** 144 °C **FP** 50 °C
SOL M,A,H,T,TP

Matrix	Cat. No.	Unit
NEAT	P-226N	10 mg
100 µg/mL in MeOH	P-226S	1 mL

Daminozide, see Alar (SADH)

Danitol

(RS)-alpha-Cyano-3-phenoxybenzyl 2,2,3,3-tetramethylcyclopropanecarboxylate



Fenpropathrin, Meothrin

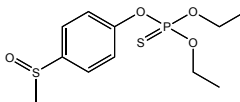
CAS 39515-41-8 **MF** C₂₂H₂₃NO₃ **MW** 349.42 **PS** S
SG 1.15 g/cm³ **MP** 45-50 °C
SOL M,A,D,H,T,CN,EA

Matrix	Cat. No.	Unit
NEAT	P-263N	10 mg
100 µg/mL in MeOH	P-263S	1 mL
1000 µg/mL in MeOH	P-263S-10X	1 mL

▲ Pesticides containing a carboxyl group may autoesterify in Methanol. These standards are intended for use after making the methyl derivative. For analysis of the parent compound we suggest a non-hydroxylic solvent such as Acetonitrile.

Dasanit

O,O-diethyl O-4-(methylsulfinylphenyl) phosphorothioate



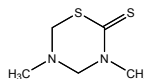
Fensulfothion

CAS 115-90-2 **MF** C₁₁H₁₇O₄PS₂ **MW** 308.36 **PS** L
SG 1.20 g/cm³ **BP** 140 °C **SOL** M,A,H,T,CN,TP

Matrix	Cat. No.	Unit
NEAT	P-235N	10 mg
100 µg/mL in MeOH	P-235S	1 mL
1000 µg/mL in Hexane	P-235S-H-10X	1 mL

Dazomet

3,5-Dimethyl-1,3,5-thiadiazinane-2-thione



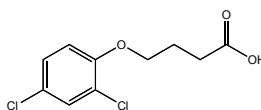
CAS 533-74-4 **MF** C₅H₁₀N₂S₂ **MW** 162.28 **PS** S
SG 1.36 g/cm³ **MP** 103-105 °C **FP** 156 °C
SOL A,EA,M,T,D,W

Matrix	Cat. No.	Unit
NEAT	P-469N	10 mg
100 µg/mL in MeOH	P-469S	1 mL

2,4-DB, see 2,4-DB acid

2,4-DB acid

4-(2,4-Dichlorophenoxy)butyric acid



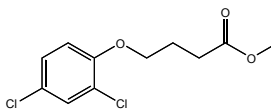
2,4-DB

CAS 94-82-6 **MF** C₁₀H₁₀Cl₂O₂ **MW** 249.1 **PS** S
SG 1.51 g/cm³ **MP** 118-120 °C **SOL** M,A,H,T,CN,EA,W

Matrix	Cat. No.	Unit
NEAT	P-141N	10 mg
100 µg/mL in MeOH	P-141S ▲	1 mL
100 µg/mL in AcCN	P-141S-CN	1 mL

2,4-DB methyl ester

Methyl 4-(2,4-dichlorophenoxy)butyrate



CAS 18625-12-2 **MF** C₁₁H₁₂Cl₂O₃ **MW** 263.12
PS S **SG** 1.27 g/cm³ **MP** 32-34 °C **BP** 354 °C
FP 143 °C **SOL** M,H,T

Matrix	Cat. No.	Unit
NEAT	P-228N	10 mg
100 µg/mL in MeOH	P-228S	1 mL

DBCP, see Fumazone

DCAA, see 2,4-Dichlorophenylacetic acid

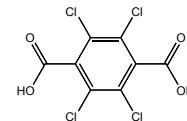
DCMU, see Karmex

3,4-DCPA, see Propanil

DCPA, see Dacthal

DCPA Diacid

Tetrachloroterephthalic acid



Chlorthal acid, Dacthal diacid

CAS 2136-79-0 **MF** C₆H₂Cl₄O₄ **MW** 303.9 **PS** S
SG 1.87 g/cm³ **MP** 343-345 °C **BP** 425 °C
FP 211 °C **SOL** M,A,D,CN

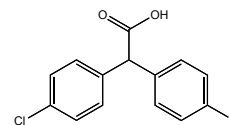
Matrix	Cat. No.	Unit
NEAT	P-320N	10 mg
100 µg/mL in MeOH	P-320S	1 mL
100 µg/mL in AcCN	P-320S-CN	1 mL

DCPA monoacid, see

Monomethyltetrachloroterephthalate

p,p'-DDA

bis(4-chlorophenyl)acetic acid



p,p'-Dichlorodiphenylacetic acid

CAS 83-05-6 **MF** C₁₄H₁₀Cl₂O₂ **MW** 281.13 **PS** S
MP 167-169 °C **SOL** M

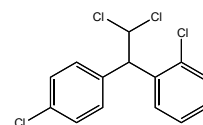
Matrix	Cat. No.	Unit
NEAT	P-444N	10 mg
100 µg/mL in MeOH	P-444S ▲	1 mL
1000 µg/mL in MeOH	P-444S-10X ▲	1 mL

2,4'-DDD, see o,p'-DDD

4,4'-DDD, see p,p'-DDD

o,p'-DDD

1-(2-Chlorophenyl)-1-(4-chlorophenyl)-2,2-dichloroethane



2,4'-DDD, Mitotane

CAS 53-19-0 **MF** C₁₄H₁₀Cl₄ **MW** 320.04 **PS** S
SG 1.37 g/cm³ **MP** 76-78 °C **BP** 399 °C **FP** 194 °C
SOL M,A,D,H,T,CN,TP,EA

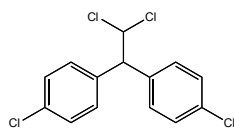
Matrix	Cat. No.	Unit
NEAT	P-024N	10 mg
100 µg/mL in MeOH	P-024S	1 mL



Pesticide Standards

p,p'-DDD

1,1-Dichloro-2,2-bis(p-chlorophenyl)ethane



4,4'-DDD, TDE

CAS 72-54-8 **MF** C₁₄H₁₀Cl₄ **MW** 320.04 **PS** S
SG 1.38 g/cm³ **MP** 94-96 °C **BP** 193.0 °C
SOL M,A,D,H,T,CN,TP,EA

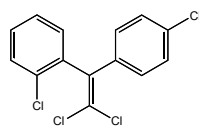
Matrix	Cat. No.	Unit
NEAT	P-025N	10 mg
100 µg/mL in MeOH	P-025S	1 mL
1000 µg/mL in MeOH	P-025S-10X	1 mL

2,4'-DDE, see o,p'-DDE

4,4'-DDE, see o,p'-DDE

o,p'-DDE

1,1-dichloro-2-(o-chlorophenyl)-
2-(p-chlorophenyl)ethylene



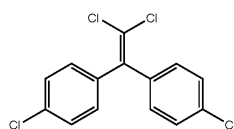
2,4'-DDE

CAS 3424-82-6 **MF** C₁₄H₈Cl₄ **MW** 318.02 **PS** S
SG 1.40 g/cm³ **MP** 75-78 °C **BP** 381 °C **FP** 182 °C
SOL M,A,D,H,T,CN,TP,EA

Matrix	Cat. No.	Unit
NEAT	P-026N	10 mg
100 µg/mL in MeOH	P-026S	1 mL

p,p'-DDE

Dichlorodiphenyl-dichloroethylene



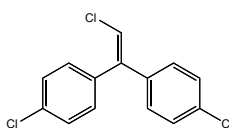
4,4'-DDE

CAS 72-55-9 **MF** C₁₄H₈Cl₄ **MW** 318.02 **PS** L
SG 0.86 g/cm³ **MP** 88-90 °C **FP** 104 °C
SOL M,A,D,H,T,CN,TP,EA

Matrix	Cat. No.	Unit
NEAT	P-027N	10 mg
100 µg/mL in MeOH	P-027S	1 mL
1000 µg/mL in MeOH	P-027S-10X	1 mL

4,4'-DDMU

1-Chloro-2,2-bis(p-chlorophenyl)ethene



p,p'-DDMU

CAS 1022-22-6 **MF** C₁₄H₉Cl₃ **MW** 283.58 **PS** S
SG 1.32 g/cm³ **MP** 64-67 °C **BP** 378 °C **FP** 264 °C
SOL M,D,H,TP

Matrix	Cat. No.	Unit
NEAT	P-424N	10 mg
100 µg/mL in MeOH	P-424S	1 mL

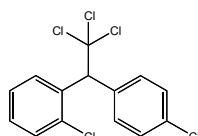
p,p'-DDMU, see 4,4'-DDMU

2,4'-DDT, see o,p'-DDT

4,4'-DDT, see p,p'-DDT

o,p'-DDT

2,2-Bis(o,p-chlorophenyl)-1,1,1-trichloroethane



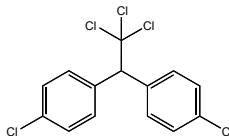
2,4'-DDT, 2,4'-Dichlorophenoxyacetic acid

CAS 789-02-6 **MF** C₁₄H₉Cl₅ **MW** 354.49 **PS** S
SG 1.45 g/cm³ **MP** 123-124 °C **BP** 410 °C **FP** 199 °C
SOL M,A,D,H,T,CN,TP,EA

Matrix	Cat. No.	Unit
NEAT	P-028N	10 mg
100 µg/mL in MeOH	P-028S	1 mL

p,p'-DDT

1,1,1-Trichloro-2,2-bis(4-chlorophenyl)ethane



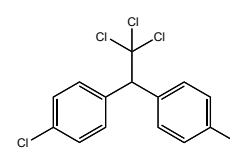
4,4'-DDT

CAS 50-29-3 **MF** C₁₄H₉Cl₅ **MW** 354.49 **PS** S
SG 1.45 g/cm³ **MP** 107-109 °C **BP** 260 °C
SOL M,A,D,H,T,CN,TP,EA

Matrix	Cat. No.	Unit
NEAT	P-029N	10 mg
100 µg/mL in MeOH	P-029S	1 mL
2000 µg/mL in MeOH	P-029S-20X	1 mL

DDT, Tech

1,1,1-Trichloro-2,2-bis(4-chlorophenyl)ethane



Dichlorodiphenyltrichloroethane

CAS 50-29-3 **MF** C₁₄H₉Cl₅ **MW** 354.49 **PS** S
SG 1.45 g/cm³ **MP** 107-109 °C **BP** 260 °C
FP 204 °C **SOL** M,A,D,H,T,CN,TP,EA

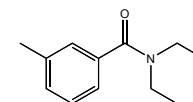
Matrix	Cat. No.	Unit
NEAT	P-346N	10 mg
100 µg/mL in MeOH	P-346S	1 mL
100 µg/mL in AcCN	P-346S-CN	1 mL

DDVP, see Dichlorvos

Dechlorane, see Mirex

Deet (Off)

N,N-diethyl-3-methylbenzamide



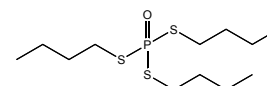
Diethyltoluamide, Off

CAS 134-62-3 **MF** C₁₂H₁₇NO **MW** 191.3 **PS** S
SOL M,A,D,CN

Matrix	Cat. No.	Unit
NEAT	P-255N	10 mg
100 µg/mL in MeOH	P-255S	1 mL

DEF 6

S,S,S-Tributylphosphorotrithioate



Tribufos

CAS 78-48-8 **MF** C₁₂H₂₇OPS₃ **MW** 314.54 **PS** L
SG 1.06 g/cm³ **MP** <-25 °C **BP** 210 °C
SOL M,A,D,H,T,CN,EA

Matrix	Cat. No.	Unit
NEAT	P-150N	10 mg
100 µg/mL in MeOH	P-150S	1 mL

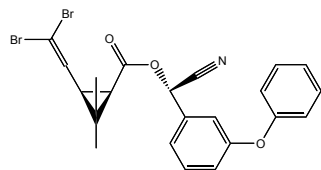
Delnav, see Dioxathion



Pesticide Standards

Deltamethrin

(S)-alpha-Cyano-3-phenoxybenzyl (1R,3R)-3-(2,2-dibromovinyl)-2,2-dimethylcyclopropanecarboxylate



Butoflin

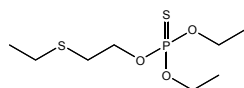
CAS 52918-63-5 MF C₂₂H₁₉Br₂NO₃ MW 505.2
PS S SG 1.60 g/cm³ MP 100-102 °C BP 300 °C
FP 278 °C SOL M,A,D,H,T,CN,TP,EA,IPA,DMSO

Matrix	Cat. No.	Unit
NEAT	P-355N	10 mg
100 µg/mL in MeOH	P-355S	1 mL

Demosan, see Chloroneb

Demeton (mixed isomers)

O,O-Diethyl-O(and S)-
2-(ethylthio)ethyl phosphorothioate



Systox

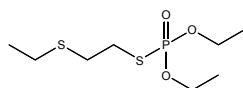
CAS 8065-48-3 MF C₈H₁₉O₃PS₂ MW 516.72 PS L
SG 1.13 g/cm³ BP 128 °C
SOL M,A,D,H,T,CN,TP,EA

Matrix	Cat. No.	Unit
NEAT	P-031N	10 mg
100 µg/mL in MeOH	P-031S	1 mL
1000 µg/mL in Hexane	P-031S-H-10X	1 mL

Demeton I (thiono isomer), see Demeton-S

Demeton-S

O,O-diethyl S-2-ethylthioethyl phosphorothioate



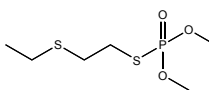
Demeton I (thiono isomer)

CAS 126-75-0 MF C₈H₁₉O₃PS₂ MW 516.72 PS L
SG 1.15 g/cm³ BP 128 °C FP 148 °C
SOL M,A,D,H,T,CN,TP,EA

Matrix	Cat. No.	Unit
NEAT	P-271N	10 mg
100 µg/mL in MeOH	P-271S	1 mL

Demeton-S-methyl

Phosphorothioic acid, S-[2-(ethylthio)ethyl]
O,O-dimethyl ester



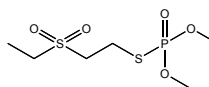
Metasystox I

CAS 919-86-8 MF C₆H₁₅O₃PS₂ MW 230.29 PS L
SG 1.21 g/cm³ BP 118 °C
SOL M,A,D,H,T,CN,TP,EA, IPA

Matrix	Cat. No.	Unit
NEAT	P-482N	10 mg
100 µg/mL in MeOH	P-482S	1 mL

Demeton-s-methylsulfone

S-2-Ethylsulfonylethyl-
O,O-dimethyl phosphorothioate



Dioxydemeton-S-methyl

CAS 17040-19-6 MF C₆H₁₅O₃PS₂ MW 262.29
PS S SG 1.32 g/cm³ MP 51-52 °C BP 393 °C
FP 192 °C SOL M,A,T,CN

Matrix	Cat. No.	Unit
NEAT	P-554N	10 mg
100 µg/mL in MeOH	P-554S	1 mL

Denatonium benzoate, see Bitrex

Desethyl atrazine, see Atrazine desethyl

Desethyl simazine, see Atrazine-desisopropyl

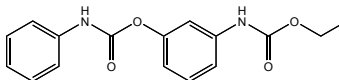
Desethylterbutylazine, see Terbutylazine desethyl

Desisopropylatrazine, see Atrazine-desisopropyl

Desisopropyl desethyl atrazine,
see Atrazine-desethyl-desisopropyl

Desmedipham

Ethyl 3-phenylcarbamyloxyphenylcarbamate



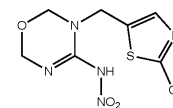
CAS 13684-56-5 MF C₁₀H₁₆N₂O₄ MW 300.31
PS S SG 1.30 g/cm³ MP 118-120 °C BP 393 °C
FP 191 °C SOL A,M,EA,D,T,H,CN

Matrix	Cat. No.	Unit
NEAT	P-376N	10 mg
100 µg/mL in MeOH	P-376S	1 mL

Desmethyl isoproturon,
see 1-(4-isopropylphenyl)-3-methylurea

N-Desmethylthiamethoxam

3-[(2-Chloro-1,3-thiazol-5-yl)methyl]-N-ni-
tro-1,3,5-oxadiazinan-4-imine

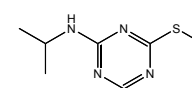


CAS 171103-04-1 MF C₇H₆ClN₅O₃S MW 277.69
PS S SOL M

Matrix	Cat. No.	Unit
100 µg/mL in MeOH	P-1266S	1 mL

Desmetryn

N2-Isopropyl-N4-methyl-6-methylthio-
1,3,5-triazine-2,4-diamine



Semeron

CAS 1014-69-3 MF C₈H₁₅N₃S MW 213.3 PS S
SG 1.18 g/cm³ MP 84-86 °C BP 386 °C FP 187 °C
SOL M,A,D,H,CN,EA, T

Matrix	Cat. No.	Unit
NEAT	P-566N	10 mg
100 µg/mL in MeOH	P-566S	1 mL

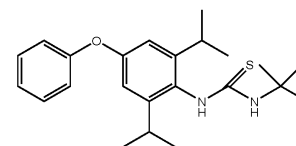
Desulfinyl fipronil, see Fipronil desulfinyl

Devrinol™, see Napropamide

Dexon, see Fenaminosulf

Diafenthuron

1-tert-butyl-3-(2,6-diisopropyl-4-phenoxyphenyl)
thiourea



CAS 80060-09-9 MF C₂₃H₃₂N₂OS MW 384.58
PS S SG 1.09 g/cm³ MP 146 °C BP 448-450 °C
FP 225 °C SOL M,A,CN,T,H

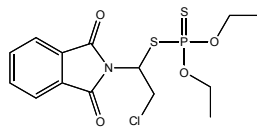
Matrix	Cat. No.	Unit
NEAT	P-1064N	10 mg
100 µg/mL in Acetone	P-1064S-A	1 mL

Dialifor, see Dialifos



Dialifos

S-2-Chloro-1-phthalimidoethyl
O,O-diethyl phosphorodithioate



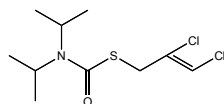
Dialifor, Torak

CAS 10311-84-9 MF C₁₄H₁₇ClNO₄PS₂ MW 393.85
PS S SG 1.43 g/cm³ MP 68 °C BP 466 °C
FP 236 °C SOL M,CN,A

Matrix	Cat. No.	Unit
NEAT	P-426N	10 mg
100 µg/mL in MeOH	P-426S	1 mL

Diallate

S-2,3-Dichloroallyl di-isopropyl(thiocarbamate)



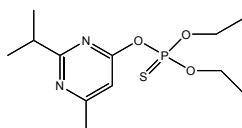
CAS 2303-16-4 MF C₁₀H₁₇Cl₂NOS MW 270.24
PS L SG 1.19 g/cm³ BP 290 °C
SOL M,A,D,H,T,CN,TP,EA

Matrix	Cat. No.	Unit
NEAT	P-142N	10 mg
100 µg/mL in MeOH	P-142S	1 mL

Diazide®, see Diazinon

Diazinon

O,O-Diethyl O-2-isopropyl-6-methylpyrimidin-
4-yl phosphorothioate



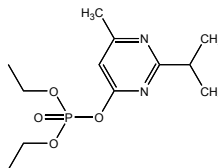
Basudin, Diazide®, Spectracide®

CAS 333-41-5 MF C₁₂H₁₂N₂O₃PS MW 304.35
PS L SG 1.11 g/cm³ BP 85-90 °C FP 104.4 °C
SOL M,A,D,H,T,CN,TP,EA

Matrix	Cat. No.	Unit
NEAT	P-033N	10 mg
100 µg/mL in MeOH	P-033S	1 mL
1000 µg/mL in MeOH	P-033S-10X	1 mL
1000 µg/mL in Hexane	P-033S-H-10X	1 mL

Diazinon-O analog

Phosphoric acid, diethyl 6-methyl-
2-(1-methylethyl)-4-pyrimidinyl ester



Diazoxon

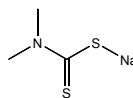
CAS 962-58-3 MF C₁₂H₂₁N₂O₃P MW 228.28
PS S SG 1.14 g/cm³ MP 88-89 °C BP 336 °C
FP 157 °C SOL M,A,CN,TP

Matrix	Cat. No.	Unit
NEAT	P-640N	10 mg
100 µg/mL in Acetone	P-640S-A	1 mL

Diazoxon, see Diazinon-O analog

Dibam

Dimethylcarbamodithioic acid, sodium salt



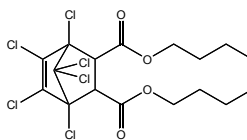
CAS 128-04-1 MF C₄H₆NNaS₂ MW 143.21 PS S
SG 1.17 g/cm³ MP 120-122 °C BP 129 °C
FP 32 °C SOL M

Matrix	Cat. No.	Unit
NEAT	P-487N	10 mg
100 µg/mL in MeOH	P-487S	1 mL

Dibrom, see Naled

Dibutylchlorendate

Dibutyl-1.4.5.6.7.7-hexachlorobicyclo(2.2.1)
hept-5-ene-2,3-dicarboxylate

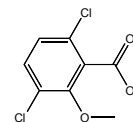


CAS 1770-80-5 MF C₁₇H₂₀Cl₆O₄ MW 501.05 PS L
SG 1.46 g/cm³ BP 500 °C FP 164 °C
SOL M,A,H,T,TP

Matrix	Cat. No.	Unit
NEAT	P-109N	10 mg
100 µg/mL in MeOH	P-109S	1 mL

Dicamba

3,6-Dichloro-o-anisic acid



Banvel-D

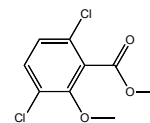
CAS 1918-00-9 MF C₈H₆Cl₂O₃ MW 221.04 PS S
SG 1.57 g/cm³ MP 115 °C BP ~200 °C
SOL M,A,D,H,T,CN,EA,W

Matrix	Cat. No.	Unit
NEAT	P-008N	10 mg
100 µg/mL in MeOH	P-008S ▲	1 mL
1000 µg/mL in MeOH	P-008S-10X ▲	1 mL
100 µg/mL in AcCN	P-008S-CN	1 mL

Dicamba, diglycoamine salt, tech, see Clarity

Dicamba methyl ester

Benzoic acid, 3,6-dichloro-2-methoxy-, methyl ester



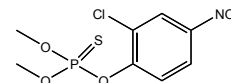
CAS 6597-78-0 MF C₉H₈Cl₂O₃ MW 235.07 PS L
SOL M,A,D,H,T,TP

Matrix	Cat. No.	Unit
NEAT	P-071N	10 mg
100 µg/mL in MeOH	P-071S	1 mL

Dicaptan, see Dicapthon

Dicapthon

O-2-Chloro-4-nitrophenyl
O,O-dimethyl phosphorothioate



Dicaptan

CAS 2463-84-5 MF C₈H₈ClNO₃PS MW 297.66
PS S SG 1.50 g/cm³ MP 52 °C BP 356 °C
FP 169 °C SOL M,T

Matrix	Cat. No.	Unit
NEAT	P-035N	10 mg
100 µg/mL in MeOH	P-035S	1 mL
1000 µg/mL in MeOH	P-035S-10X	1 mL

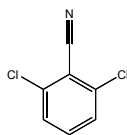
▲ Pesticides containing a carboxyl group may autoesterify in Methanol. These standards are intended for use after making the methyl derivative. For analysis of the parent compound we suggest a non-hydroxylic solvent such as Acetonitrile.



Pesticide Standards

Dichlobenil

2,6-Dichlorobenzonitrile



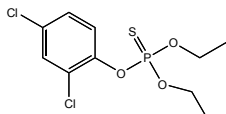
Casoron

CAS 1194-65-6 **MF** C₇H₃Cl₂N **MW** 172.01 **PS** S
SG 1.55 g/cm³ **MP** 139-146 °C **BP** 270 °C
SOL M,A,D,H,T,CN,TP,EA

Matrix	Cat. No.	Unit
NEAT	P-275N	10 mg
100 µg/mL in MeOH	P-275S	1 mL

Dichlofenthion

O-(2,4-Dichlorophenyl)-O,O-diethyl thiophosphate

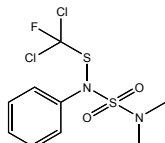


CAS 97-17-6 **MF** C₁₀H₁₃Cl₂O₂PS **MW** 315.15 **PS** L
SG 1.32 g/cm³ **BP** 120-123 °C **FP** >100 °C
SOL M,A,D,H,T,CN,TP,EA

Matrix	Cat. No.	Unit
NEAT	P-211N	10 mg
100 µg/mL in MeOH	P-211S	1 mL

Dichlofluandil

1,1-Dichloro-N-[(dimethylamino)sulfonyl]-1-fluoro-N-phenylmethanesulfenamide



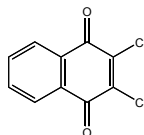
Euparen

CAS 1085-98-9 **MF** C₉H₁₁Cl₂FN₂O₂S₂ **MW** 333.23
PS S **SG** 1.55 g/cm³ **MP** 105-106 °C **BP** 337 °C
FP 158 °C **SOL** M,A,D,H,T,CN,TP,EA, IPA

Matrix	Cat. No.	Unit
NEAT	P-474N	10 mg
100 µg/mL in MeOH	P-474S	1 mL

Dichlone

2,3-Dichloro-1,4-naphthoquinone



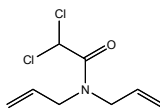
CAS 117-80-6 **MF** C₁₀H₄Cl₂O₂ **MW** 227.04 **PS** S
SG 1.54 g/cm³ **MP** 192-193 °C **BP** 275 °C
FP 178 °C **SOL** M,D,TP

Matrix	Cat. No.	Unit
NEAT	P-253N	10 mg
100 µg/mL in MeOH	P-253S	1 mL

Dichloran, see Botran

Dichlormid

N,N-Diallyl-2,2-dichloroacetamide

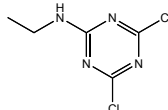


CAS 37764-25-3 **MF** C₈H₁₁Cl₂NO **MW** 208.08 **PS** L
SG 1.19 g/cm³ **MP** 6 °C **BP** 130 °C **SOL** M,A,CN,W

Matrix	Cat. No.	Unit
NEAT	P-675N	10 mg
100 µg/mL in MeOH	P-675S	1 mL

2,4-Dichloro-6-ethylamino-s-triazine

2,4-Dichloro-6-ethylamino-1,3,5-triazine

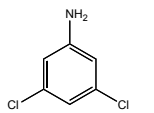


CAS 3440-19-5 **MF** C₅H₆Cl₂N₄ **MW** 193.03 **PS** S
SOL MC

Matrix	Cat. No.	Unit
NEAT	P-538N	10 mg
100 µg/mL in MC	P-538S-MC	1 mL

3,5-Dichloroaniline

3,5-Dichlorobenzeneamine

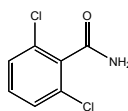


3,5-Dichlorobenzeneamine

CAS 626-43-7 **MF** C₆H₅Cl₂N **MW** 162.02 **PS** S
SG 1.58 g/cm³ **MP** 49-53 °C **BP** 260 °C **FP** 133 °C
SOL M,D,CN,EA

Matrix	Cat. No.	Unit
NEAT	P-1008N	10 mg
100 µg/mL in MeOH	P-1008S	1 mL

2,6-Dichlorobenzamide



BAM

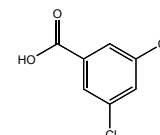
CAS 2008-58-4 **MF** C₇H₅Cl₂NO **MW** 190.03 **PS** S
SG 1.44 g/cm³ **MP** 196-201 °C **SOL** M,A

Matrix	Cat. No.	Unit
NEAT	P-1035N	10 mg
100 µg/mL in MeOH	P-1035S	1 mL

3,5-Dichlorobenzeneamine, see 3,5-Dichloroaniline

3,5-Dichlorobenzoic acid

3,5-Dichlorobenzoic acid

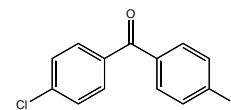


CAS 51-36-5 **MF** C₇H₂Cl₂O₂ **MW** 191.01 **PS** S
SG 1.52 g/cm³ **MP** 185-187 °C **BP** 349 °C
FP 141 °C **SOL** M,A,H,T,CN

Matrix	Cat. No.	Unit
NEAT	P-242N	10 mg
100 µg/mL in MeOH	P-242S	1 mL
1000 µg/mL in MeOH	P-242S-10X	1 mL
100 µg/mL in AcCN	P-242S-CN	1 mL

4,4'-Dichlorobenzophenone

4,4'-Dichlorobenzophenone



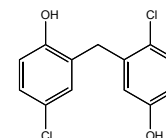
CAS 90-98-2 **MF** C₁₃H₈Cl₂O **MW** 251.11 **PS** S
SG 1.31 g/cm³ **MP** 144-147 °C **BP** 353 °C
FP 156 °C **SOL** M,D,H

Matrix	Cat. No.	Unit
NEAT	P-295N	10 mg
100 µg/mL in MeOH	P-295S	1 mL
1000 µg/mL in MeOH	P-295S-10X	1 mL

*p,p'-Dichlorodiphenylacetic acid, see p,p'-DDA**Dichlorodiphenyltrichloroethane, see DDT, Tech*

Dichlorophen

4,4'-dichloro-2-2'-methylenebisphenol



CAS 97-23-4 **MF** C₁₃H₁₀Cl₂O₂ **MW** 269.13 **PS** S
SG 1.23 g/cm³ **MP** 168-172 °C **BP** 246 °C
FP 96 °C **SOL** A,IPA,M,CN

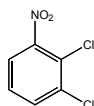
Matrix	Cat. No.	Unit
NEAT	P-232N	10 mg
100 µg/mL in MeOH	P-232S	1 mL

2,4-Dichlorophenoxy acid 2-ethylhexyl ester, see 2,4-D Ethylhexyl ester



2,3-Dichloronitrobenzene

1,2-Dichloro-3-nitrobenzene

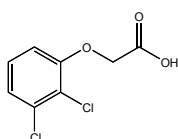


CAS 3209-22-1 **MF** C₆H₃Cl₂NO₂ **MW** 192.00 **PS** S
SG 1.45 g/cm³ **MP** 62 °C **BP** 257-258 °C
FP 124 °C **SOL** D,T,TP

Matrix	Cat. No.	Unit
NEAT	P-1005N	10 mg
100 µg/mL in Toluene	P-1005S-T	1 mL

2,3-Dichlorophenoxyacetic acid

2,3-Dichlorophenoxyacetic acid



2,3-D

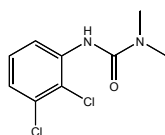
CAS 2976-74-1 **MF** C₈H₆Cl₂O₃ **MW** 221.04 **PS** S
SG 1.49 g/cm³ **MP** 173-175 °C **BP** 348 °C
FP 164 °C **SOL** M,CN

Matrix	Cat. No.	Unit
NEAT	P-470N	10 mg
100 µg/mL in MeOH	P-470S ▲	1 mL
100 µg/mL in AcCN	P-470S-CN	1 mL

2,4-Dichlorophenoxyacetic acid, see *o,p'*-DDT

3-(2,3-Dichlorophenyl)-1,1-dimethylurea

3-(2,3-Dichlorophenyl)-1,1-dimethylurea

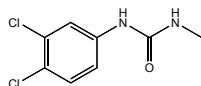


2,3-Diuron

CAS 10290-37-6 **MF** C₉H₁₀Cl₂N₂O **MW** 233.09
PS S **SG** 1.37 g/cm³ **BP** 380 °C **FP** 184 °C **SOL** M

Matrix	Cat. No.	Unit
NEAT	P-632N	10 mg
100 µg/mL in MeOH	P-632S	1 mL

1-(3,4-Dichlorophenyl)-3-methylurea

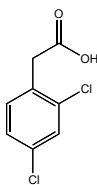


CAS 3567-62-2 **MF** C₈H₈Cl₂N₂O **MW** 219.07 **PS** S
SG 1.41 g/cm³ **MP** 123-124 °C **BP** 295-296 °C
FP 132 °C **SOL** M,CN

Matrix	Cat. No.	Unit
NEAT	P-1038N	10 mg
100 µg/mL in MeOH	P-1038S	1 mL

2,4-Dichlorophenylacetic acid

2,4-Dichlorophenylacetic acid



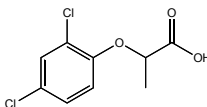
DCAA

CAS 19719-28-9 **MF** C₈H₆Cl₂O₂ **MW** 205.04 **PS** S
SG 1.46 g/cm³ **MP** 128-133 °C **BP** 325 °C
FP 150 °C **SOL** M,A,D,H,T,CN

Matrix	Cat. No.	Unit
NEAT	P-244N	10 mg
100 µg/mL in MeOH	P-244S ▲	1 mL
1000 µg/mL in MeOH	P-244S-10X ▲	1 mL
100 µg/mL in AcCN	P-244S-CN	1 mL

Dichlorprop

(RS)-2-(2,4-Dichlorophenoxy)propionic acid

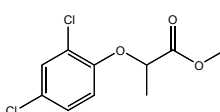


2,4-DP

CAS 120-36-5 **MF** C₉H₈Cl₂O₃ **MW** 235.07 **PS** S
SG 1.42 g/cm³ **MP** 117.5 °C
SOL M,A,D,H,T,CN,EA,IPA,W

Matrix	Cat. No.	Unit
NEAT	P-143N	10 mg
100 µg/mL in MeOH	P-143S ▲	1 mL
100 µg/mL in AcCN	P-143S-CN	1 mL

Dichlorprop methyl ester



CAS 57153-17-0 **MF** C₁₀H₁₁Cl₂O₃ **MW** 249.09 **PS** L
SG 1.31 g/cm³ **BP** 308 °C **SOL** M,H,T

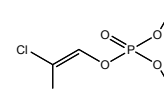
Matrix	Cat. No.	Unit
NEAT	P-229N	10 mg
100 µg/mL in MeOH	P-229S	1 mL

Dichlorprop, 2-ethylhexyl ester, see 2,4-DP ethyl hexyl

▲ Pesticides containing a carboxyl group may autoesterify in Methanol. These standards are intended for use after making the methyl derivative. For analysis of the parent compound we suggest a non-hydroxylic solvent such as Acetonitrile.

Dichlorvos

O,O-Dimethyl-O-(2,2-Dichlorovinyl)phosphate



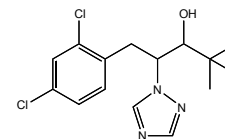
DDVP, Vapona

CAS 62-73-7 **MF** C₄H₆Cl₂O₄P **MW** 220.98 **PS** L
SG 1.42 g/cm³ **BP** 74 °C **FP** 100 °C
SOL M,A,D,H,T,CN,TP,EA,W

Matrix	Cat. No.	Unit
NEAT	P-036N	10 mg
100 µg/mL in MeOH	P-036S	1 mL
1000 µg/mL in Hexane	P-036S-H-10X	1 mL

Diclobutrazol

E-(R,S)-1-(2,4-Dichlorophenyl)-4,4-Dimethyl-2-(1H-1,2,4-Triazol-1-Yl)Pent-1-Ene-3-Ol

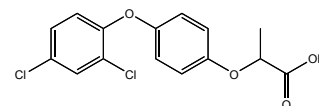


CAS 75736-33-3 **MF** C₁₅H₁₉Cl₂N₃O **MW** 328.24
PS S **SG** 1.28 g/cm³ **MP** 147-149 °C **BP** 484 °C
FP 247 °C **SOL** M,A,CN

Matrix	Cat. No.	Unit
NEAT	P-641N	10 mg
100 µg/mL in AcCN	P-641S-CN	1 mL

Diclofop

2-(4-(2,4-Dichlorophenoxy)phenoxy)propanoic acid



Hoe-grass

CAS 40843-25-2 **MF** C₁₅H₁₂Cl₂O₄ **MW** 327.17 **PS** S
SG 1.34 g/cm³ **MP** 39-40 °C **BP** 440 °C **FP** 220 °C
SOL M,A,D,H,CN,W

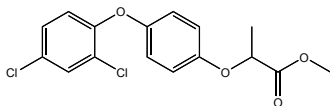
Matrix	Cat. No.	Unit
NEAT	P-514N	10 mg
100 µg/mL in MeOH	P-514S ▲	1 mL



Pesticide Standards

Diclofop methyl

Methyl (RS)-2-[4-(2,4-dichlorophenoxy)phenoxy] propionate



CAS 51338-27-3 **MF** C₁₆H₁₄Cl₂O₄ **MW** 341.2 **PS L**
SG 0.79 g/cm³ **MP** -98 °C **BP** 65 °C **FP** 150 °C
SOL M,A,D,H,T,CN,TP,DMSO,EA,IPA

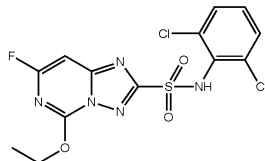
Matrix	Cat. No.	Unit
NEAT	P-303N	10 mg
100 µg/mL in MeOH	P-303S	1 mL

Dicofol, see *Kelthane*

p,p'-*Dicofol*, see *Kelthane*

Diclosulam

N-(2,6-Dichlorophenyl)-5-ethoxy-7-fluoro[1,2,4] triazololo[1,5-c]pyrimidine-2-sulfonamide

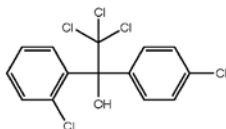


CAS 145701-21-9 **MF** C₁₃H₁₀Cl₂FN₅O₃S **MW** 406.22
PS L **SG** 1.60 g/cm³ **MP** 218-221 °C
SOL A,D,EA,M,CN

Matrix	Cat. No.	Unit
NEAT	P-904N	10 mg
100 µg/mL in MeOH	P-904S	1 mL

o,p'-Dicofol

2,2,2-Trichloro-1-(2-chlorophenyl)-1-(4-chlorophenyl)ethanol

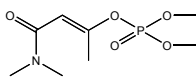


CAS 10606-46-9 **MF** C₁₄H₉Cl₅O **MW** 370.49
PS S **SG** 1.45 g/cm³ **MP** 112-123 °C **FP** 49 °C
SOL M,A,H,T,TP

Matrix	Cat. No.	Unit
NEAT	P-606N	10 mg
100 µg/mL in MeOH	P-606S	1 mL

Dicrotophos

(E)-2-Dimethylcarbamoyl-1-methylvinyl dimethyl phosphate



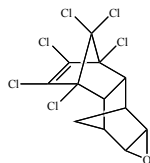
Bidrin

CAS 141-66-2 **MF** C₈H₁₆NO₅P **MW** 237.19 **PS L**
SG 1.22 g/cm³ **MP** 400 °C **FP** >93 °C
SOL M,A,D,H,T,CN,EA,W

Matrix	Cat. No.	Unit
NEAT	P-178N	10 mg
100 µg/mL in MeOH	P-178S	1 mL

Dieldrin

endo,exo-1,2,3,4,10,10-Hexachloro-6,7-epoxy-1,4,4a,5,6,7,8,8a-octahydro-1,4:5,8-dimethanonaphthalene



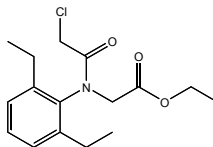
HEOD

CAS 60-57-1 **MF** C₁₂H₈Cl₆O **MW** 380.92 **PS S**
SG 1.85 g/cm³ **MP** 143-144 °C **BP** 385 °C
FP 155 °C **SOL** M,A,D,H,T,CN,EA

Matrix	Cat. No.	Unit
NEAT	P-037N	10 mg
100 µg/mL in MeOH	P-037S	1 mL
1000 µg/mL in MeOH	P-037S-10X	1 mL

Diethylatyl ethyl

Ethyl N-(chloroacetyl)-N-2,6-diethylphenylglycinate



CAS 38727-55-8 **MF** C₁₆H₂₂ClNO₃ **MW** 311.84 **PS L**
SG 1.15 g/cm³ **BP** 448 °C **FP** 225 °C **SOL** M,IPA

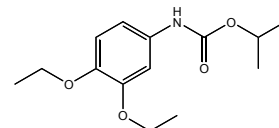
Matrix	Cat. No.	Unit
NEAT	P-599N	10 mg
100 µg/mL in MeOH	P-599S	1 mL

Diethion, see *Ethion*

Diethquinalphos, see *Quinalphos*

Diethofencarb

isopropyl 3,4-diethoxycarbanilate

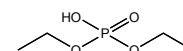


CAS 87130-20-9 **MF** C₁₄H₂₁NO₄ **MW** 267.36 **PS S**
SG 1.10 g/cm³ **MP** 100 °C **BP** 326 °C **FP** 151 °C
SOL M,A,H,CN,EA

Matrix	Cat. No.	Unit
NEAT	P-744N	10 mg
100 µg/mL in MeOH	P-744S	1 mL

Diethyl phosphate (mono- & di-)

Diethyl phosphate (mono- & di-)

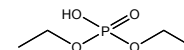


CAS 598-02-7 **MF** C₄H₁₁O₄P **MW** 154.1 **PS L**
SG 1.29 g/cm³ **MP** 76 °C **BP** 255 °C **FP** 91 °C
SOL M

Matrix	Cat. No.	Unit
NEAT	P-443N	10 mg
100 µg/mL in MeOH	P-443S	1 mL

Diethylphosphate

Phosphoric acid, diethyl ester



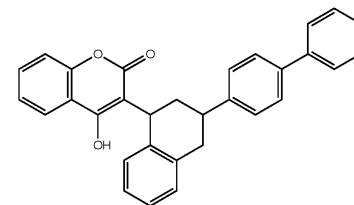
CAS 598-02-7 **MF** C₄H₁₁O₄P **MW** 154.1 **PS L**
SG 1.29 g/cm³ **MP** -76 °C **BP** 255 °C **FP** 91 °C
SOL M

Matrix	Cat. No.	Unit
NEAT	P-534N	10 mg
100 µg/mL in MeOH	P-534S	1 mL

Diethyltoluamide, see *Deet*

Difenacoum

3-[3-(4-Biphenyl)-1,2,3,4-tetrahydro-1-naphthalenyl]-4-hydroxy-2H-chromen-2-one

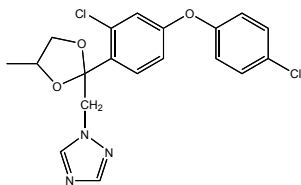


CAS 56073-07-5 **MF** C₃₁H₂₄O₃ **MW** 444.52 **PS S**
SG 1.35 g/cm³ **MP** 215-217 °C **FP** 200 °C **SOL** M,CN

Matrix	Cat. No.	Unit
100 µg/mL in AcCN	P-1151S-CN	1 mL

**Difenoconazole**

3-Chloro-4-[4-methyl-2-(1H-1,2,4-triazol-1-ylmethyl)-1,3-dioxolan-2-yl]phenyl 4-chlorophenyl ether

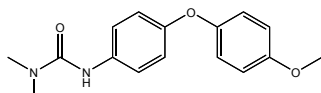


CAS 119446-68-3 **MF** C₁₉H₁₇Cl₂N₃O₃ **MW** 406.26
PS S **SG** 1.40 g/cm³ **MP** 82 °C **BP** 220 °C
SOL M,A,D,H,T,CN,TP,EA

Matrix	Cat. No.	Unit
NEAT	P-447N	10 mg
100 µg/mL in MeOH	P-447S	1 mL

Difenoxyuron

3-[4-(4-methoxyphenoxy)phenyl]-1,1-dimethylurea



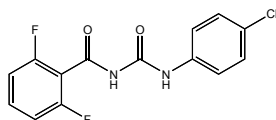
Lironion

CAS 14214-32-5 **MF** C₁₆H₁₈N₂O₃ **MW** 286.33 **PS S**
SG 1.19 g/cm³ **MP** 138-139 °C **BP** 467 °C
FP 236 °C **SOL** M,CN,D,A,H

Matrix	Cat. No.	Unit
NEAT	P-604N	10 mg
100 µg/mL in MeOH	P-604S	1 mL

Diflubenzuron

1-(4-Chlorophenyl)-3-(2,6-difluorobenzoyl)urea

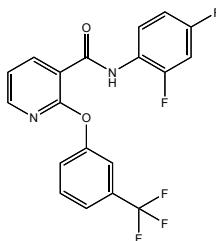


CAS 35367-38-5 **MF** C₁₄H₉ClF₂N₂O₂ **MW** 310.68
PS S **SG** 1.56 g/cm³ **MP** 228 °C
SOL M,A,D,CN,EA, H,T

Matrix	Cat. No.	Unit
NEAT	P-377N	10 mg
100 µg/mL in MeOH	P-377S	1 mL

Diflufenican

2',4'-difluoro-2-(a,a,a-trifluoro-m-tolylxy)nicotinamide



Diflufenicanil

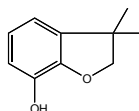
CAS 83164-33-4 **MF** C₁₀H₁₁F₅N₂O₂ **MW** 394.29
PS S **SG** 1.44 g/cm³ **MP** 160 °C **BP** 376 °C
FP 181 °C **SOL** M,EA,A,D,CN,T

Matrix	Cat. No.	Unit
NEAT	P-722N	10 mg
100 µg/mL in MeOH	P-722S	1 mL

Diflufenicanil, see Diflufenican

2,3-Dihydro-2,2-dimethylbenzofuran-7-ol

2,3-Dihydro-2,2-dimethyl-benzofuranol



Carbofuran phenol

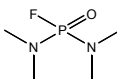
CAS 1563-38-8 **MF** C₁₀H₁₂O₂ **MW** 164.21 **PS S**
SG 1.10 g/cm³ **MP** 67-68 °C **BP** 256 °C **FP** 113 °C
SOL M,W,D

Matrix	Cat. No.	Unit
NEAT	P-628N	10 mg
100 µg/mL in MeOH	P-628S	1 mL

1,2-Dihydro-3,6-pyridazinedione,
see Maleic hydrazide

Dimefox

bis(Dimethylamino)fluorophosphine oxide



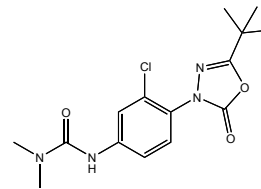
Tetramethylphosphorodiamidic fluoride (I)

CAS 115-26-4 **MF** C₄H₁₂FN₂O₂ **MW** 154.12 **PS L**
SG 1.15 g/cm³ **BP** 86 °C **FP** >100 °C **SOL** M,CN,A

Matrix	Cat. No.	Unit
NEAT	P-299N	10 mg
100 µg/mL in MeOH	P-299S	1 mL

Dimefuron

3-[4-(5-tert-Butyl-2,3-dihydro-2-oxo-1,3,4-oxadiazol-3-yl)-3-chlorophenyl]-1,1-dimethylurea

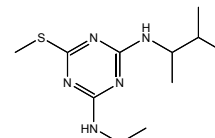


CAS 34205-21-5 **MF** C₁₈H₁₉ClN₃O₃ **MW** 338.83
PS S **MP** 193 °C **SOL** M,A,CN,EA

Matrix	Cat. No.	Unit
NEAT	P-565N	10 mg
100 µg/mL in MeOH	P-565S	1 mL

Dimepax

N-(1,2-Dimethylpropyl)-N'-ethyl-6-(methylthio)-1,3,5-triazine-2,4-diamine



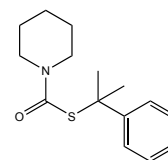
Dimethametryn

CAS 22936-75-0 **MF** C₁₁H₁₇N₅S **MW** 255.43 **PS S**
SG 1.11 g/cm³ **MP** 61-67 °C **BP** 413 °C **FP** 204 °C
SOL A,D,H,M,CN,T

Matrix	Cat. No.	Unit
NEAT	P-643N	10 mg
100 µg/mL in MeOH	P-643S	1 mL

Dimepiperate

S-(1-methyl-1-phenylethyl) 1-piperidinecarbothioate



CAS 61432-55-1 **MF** C₁₅H₂₁NOS **MW** 263.40 **PS S**
SG 1.08 g/cm³ **MP** 39-40 °C **BP** 376 °C **FP** 181 °C
SOL A,H

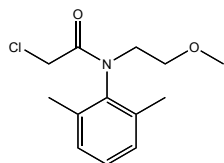
Matrix	Cat. No.	Unit
50 µg/mL in Acetone	P-1020S-A-0.5X	1 mL



Pesticide Standards

Dimethachlor

2-Chloro-N-(2-methoxyethyl)aceto-2',6'-xylylide



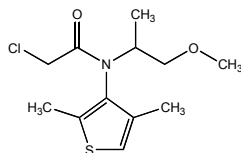
CAS 50563-36-5 **MF** C₁₃H₁₈ClNO₂ **MW** 255.77
PS S **SG** 1.14 g/cm³ **MP** 47 °C **BP** 374 °C
FP 180 °C **SOL** M,A,H,CN,D,W

Matrix	Cat. No.	Unit
NEAT	P-642N	10 mg
100 µg/mL in MeOH	P-642S	1 mL

Dimethametryn, see Dimepax

Dimethenamid

(RS)-2-chloro-N-(2,4-dimethyl-3-thienyl)-N-(2-methoxy-1-methylethyl)acetamide

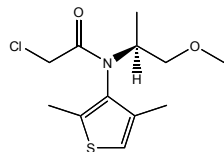


CAS 87674-68-8 **MF** C₁₂H₁₈ClNO₂S **MW** 275.8
PS L **SG** 1.20 g/cm³ **BP** 383 °C **FP** 185 °C
SOL A,EA,H,T,TP,M

Matrix	Cat. No.	Unit
NEAT	P-747N	10 mg
100 µg/mL in MeOH	P-747S	1 mL

Dimethenamide-P

(S)-2-Chloro-N-(2,4-dimethyl-2-thienyl)-N-(2-methoxy-1-methylethyl)acetamide

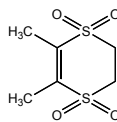


CAS 163515-14-8 **MF** C₁₂H₁₈ClNO₂S **MW** 275.8
PS L **SG** 1.20 g/cm³ **MP** <-50 °C **BP** 123 °C
FP 79 °C **SOL** H,M,W

Matrix	Cat. No.	Unit
NEAT	P-934N	10 mg
100 µg/mL in MeOH	P-934S	1 mL

Dimethipin

2,3-Dihydro-5,6-dimethyl-1,4-dithiine 1,1,4,4-tetraoxide



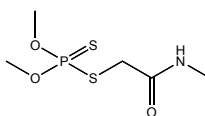
Harvade

CAS 55290-64-7 **MF** C₆H₁₀O₄S₂ **MW** 210.27 **PS S**
SG 1.59 g/cm³ **MP** 167-169 °C **SOL** M,A

Matrix	Cat. No.	Unit
NEAT	P-483N	10 mg
100 µg/mL in MeOH	P-483S	1 mL

Dimethoate

2-Dimethoxyphosphinothioylthio-N-methylacetamide



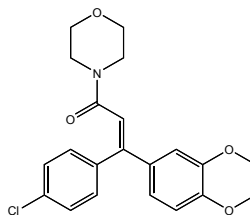
Cygon, Rogor

CAS 60-51-5 **MF** C₅H₁₂NO₃PS₂ **MW** 229.26 **PS S**
SG 1.31 g/cm³ **MP** 50 °C **BP** 117 °C **FP** 107 °C
SOL M,A,D,H,T,CN,TP,EA,W

Matrix	Cat. No.	Unit
NEAT	P-039N	10 mg
100 µg/mL in MeOH	P-039S	1 mL
1000 µg/mL in MeOH	P-039S-10X	1 mL

Dimethomorph

(E,Z)-4-[3-(4-chlorophenyl)-3-(3,4-dimethoxyphenyl)acryloyl]morpholine



Dimethomorph mixture of E + Z isomers

CAS 110488-70-5 **MF** C₂₁H₂₂ClNO₄ **MW** 387.86
PS S **SG** 1.32 g/cm³ **MP** 125-149 °C
SOL A,H,M,T,CN,EA,D

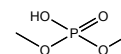
Matrix	Cat. No.	Unit
NEAT	P-713N	10 mg
100 µg/mL in MeOH	P-713S	1 mL

Dimethomorph mixture of E + Z isomers, see Dimethomorph

Dimethoxon, see Omethoate

Dimethyl phosphate

O,O-Dimethyl hydrogen phosphate



CAS 813-78-5 **MF** C₂H₇O₄P **MW** 126.04 **PS L**
SG 1.50 g/cm³ **MP** -76 °C **BP** 172-176 °C **SOL** M

Matrix	Cat. No.	Unit
NEAT	P-442N	10 mg
100 µg/mL in MeOH	P-442S	1 mL

Dimethylarsinic acid

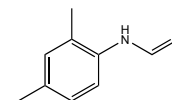


Cacodylic acid

CAS 75-60-5 **MF** C₂H₇AsO₂ **MW** 138.00 **PS S**
MP 195-196 °C **BP** 253-254 °C **SOL** M,W

Matrix	Cat. No.	Unit
NEAT	P-1075N	10 mg
100 µg/mL in MeOH	P-1075S	1 mL

N-(2,4-Dimethylphenyl)formamide



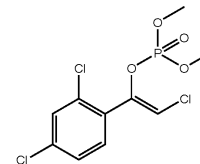
CAS 60397-77-5 **MF** C₉H₁₁NO **MW** 149.19 **PS S**
MP 114-118 °C **SOL** CN

Matrix	Cat. No.	Unit
100 µg/mL in AcCN	P-1100S-CN	1 mL

N,N-Dimethyl-N'-(4-(1-methylethyl)phenyl)urea, see Isoproturon

Dimethylvinphos (Z type)

(Z)-2-chloro-1-(2,4-dichlorophenyl)vinyl dimethyl phosphate

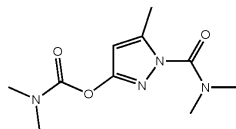


CAS 67628-93-7 **MF** C₁₀H₁₀Cl₃O₄P **MW** 331.52
PS S **SG** 1.45 g/cm³ **MP** 69-70 °C **BP** 375 °C
FP 263 °C **SOL** A,CN

Matrix	Cat. No.	Unit
100 µg/mL in Acetone	P-1057S-A	1 mL

**Dimetilan**

1-(Dimethylcarbamoyl)-5-methyl-1H-pyrazol-3-yl dimethylcarbamate

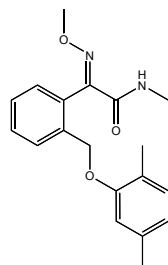


CAS 644-64-4 **MF** C₁₀H₁₆N₄O₃ **MW** 240.26 **PS** S
SG 1.25 g/cm³ **MP** 69-70 °C **BP** 200-210 °C
FP >150 °C **SOL** A,CN

Matrix	Cat. No.	Unit
100 µg/mL in AcCN	P-905S-CN	1 mL

Dimoxystrobin

(E)-2-(methoxyimino)-N-methyl-2-[a-(2,5-xylyloxy)-o-tolyl]acetamide

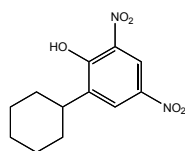


CAS 149961-52-4 **MF** C₁₉H₂₂N₂O₃ **MW** 326.39
PS S **SG** 1.24 g/cm³ **MP** 138-140 °C
SOL A,T,M,EA,CN,IPA,D

Matrix	Cat. No.	Unit
100 µg/mL in AcCN	P-844S-CN	1 mL

Dinex

2-Cyclohexyl-4,6-Dinitrophenol



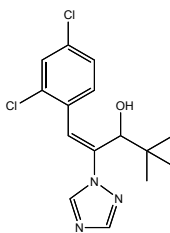
4,6-Dinitro-o-cyclohexylphenol

CAS 131-89-5 **MF** C₁₂H₁₄N₂O₃ **MW** 266.25 **PS** S
SG 1.38 g/cm³ **MP** 104 °C **BP** 321 °C **FP** 130 °C
SOL M,D,H

Matrix	Cat. No.	Unit
NEAT	P-427N	10 mg
100 µg/mL in MeOH	P-427S	1 mL
1000 µg/mL in MeOH	P-427S-10X	1 mL

Diniconazol

(E)-(RS)-1-(2,4-Dichlorophenyl-4,4-dimethyl-2-(1H-1,2,4-triazol-1-yl)pent-1-en-3-ol



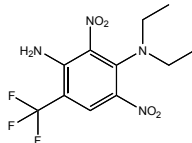
Embassador™, Spotless™

CAS 83657-24-3 **MF** C₁₅H₁₇Cl₂N₃O **MW** 326.22
PS S **SG** 1.32 g/cm³ **MP** 134-156 °C **FP** >150 °C
SOL A,M,H,CN,T

Matrix	Cat. No.	Unit
NEAT	P-845N	10 mg
100 µg/mL in AcCN	P-845S-CN	1 mL

Dinitramine

N1,N1-Diethyl-2,6-dinitro-4-trifluoromethyl-m-phenylenediamine

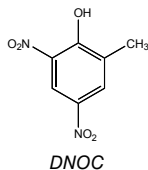


CAS 29091-05-2 **MF** C₁₁H₁₃F₃N₃O₄ **MW** 322.24
PS S **SG** 1.46 g/cm³ **MP** 98-99 °C **BP** 401 °C
FP 201 °C **SOL** M,A,CN,TP,H

Matrix	Cat. No.	Unit
NEAT	P-575N	10 mg
100 µg/mL in MeOH	P-575S	1 mL

4,6-Dinitro-o-cresol

2-Methyl-4,6-dinitrophenol



DNOC

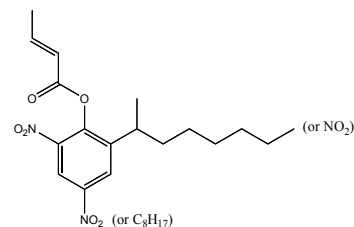
CAS 534-52-1 **MF** C₇H₇N₂O₃ **MW** 198.13 **PS** S
SG 1.55 g/cm³ **MP** 83-85 °C **FP** 149 °C
SOL M,A,D,H,T,CN,W,EA

Matrix	Cat. No.	Unit
NEAT	P-384N	10 mg
100 µg/mL in MeOH	P-384S	1 mL
1000 µg/mL in MeOH	P-384S-10X	1 mL

4,6-Dinitro-o-cyclohexylphenol, see Dinex

Dinocap

2,6-Dinitro-4-octylphenyl crotonates

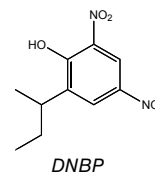


CAS 39300-45-3 **MF** C₁₈H₂₄N₂O₆ **MW** 364.39 **PS** L
SG 1.10 g/cm³ **MP** -22 °C **BP** 138-140 °C
FP 174 °C **SOL** M,A,D,CN,EA

Matrix	Cat. No.	Unit
NEAT	P-288N	10 mg
100 µg/mL in MeOH	P-288S	1 mL

Dinoseb

2-sec-Butyl-4,6-dinitrophenol



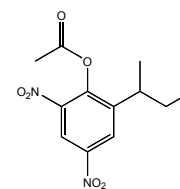
DNBP

CAS 88-85-7 **MF** C₁₀H₁₂N₂O₅ **MW** 240.21 **PS** S
SG 1.30 g/cm³ **MP** 40 °C **BP** 184 °C **FP** >100 °C
SOL M,A,D,H,CN

Matrix	Cat. No.	Unit
NEAT	P-144N	10 mg
100 µg/mL in MeOH	P-144S	1 mL
1000 µg/mL in MeOH	P-144S-10X	1 mL

Dinoseb acetate

Acetic acid, (2,4-dinitro-6-s-butylphenyl) ester



CAS 2813-95-8 **MF** C₁₂H₁₄N₂O₆ **MW** 282.25
PS S **SG** 1.30 g/cm³ **MP** 144 °C **BP** 363-364 °C
FP 145 °C **SOL** EA

Matrix	Cat. No.	Unit
NEAT	P-779N	10 mg
100 µg/mL in MeOH	P-779S	1 mL

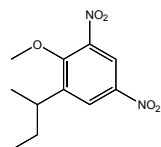
Dinoseb methyl ester, see Dinoseb methyl ether



Pesticide Standards

Dinoseb methyl ether

2,4-Dinitro-6-sec-butylphenol methyl ether

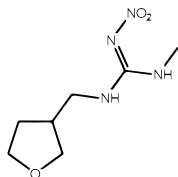
*Dinoseb methyl ester*CAS 6099-79-2 MF C₁₁H₁₄N₂O₅ MW 254.24 PS L
BP 368 °C FP 157 °C SOL M,A,D,H,T

Matrix	Cat. No.	Unit
NEAT	P-230N	10 mg
100 µg/mL in MeOH	P-230S	1 mL

Dinoseb methacrylate, see Binapacryl

Dinotefuran

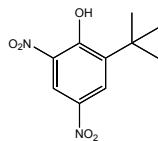
(RS)-1-Methyl-2-nitro-3-(tetrahydro-3-furylmethyl) guanidine

CAS 165252-70-0 MF C₇H₁₄N₄O₃ MW 202.21
PS S SG 1.42 g/cm³ MP 107-108 °C
BP Decomp. ~208 °C SOL M,CN,H,T

Matrix	Cat. No.	Unit
100 µg/mL in AcCN	P-986S-CN	1 mL

Dinoterb

2-tert-Butyl-4,6-dinitrophenol

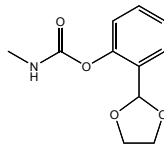
*DNTBP*CAS 1420-07-1 MF C₁₀H₁₂N₂O₅ MW 240.21 PS S
SG 1.35 g/cm³ MP 125.5-126.5 °C BP 304 °C
FP 125 °C SOL M,A,CN,EA

Matrix	Cat. No.	Unit
NEAT	P-524N	10 mg
100 µg/mL in MeOH	P-524S	1 mL

Diocyl adipate, see bis(2-Ethylhexyl)adipate

Dioxacarb

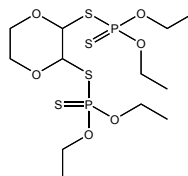
2-(1,3-dioxolan-2-yl)phenyl methylcarbamate

CAS 6988-21-2 MF C₁₁H₁₃NO₄ MW 223.25 PS S
SG 1.23 g/cm³ MP 114-115 °C SOL M,A,CN,H

Matrix	Cat. No.	Unit
NEAT	P-264N	10 mg
100 µg/mL in MeOH	P-264S	1 mL

Dioxathion

1,4-Dioxan-2,3-diyl-O,O,O',O'-tetraethyl di(phosphorodithioate)

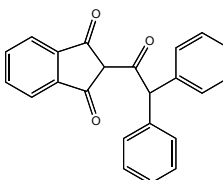
*Delnav, Navadel*CAS 78-34-2 MF C₁₂H₂₆O₄P₂S₄ MW 456.56 PS L
SG 1.33 g/cm³ MP 20 °C BP 60-68 °C
SOL M,A,D,H,CN,TP

Matrix	Cat. No.	Unit
NEAT	P-219N	10 mg
100 µg/mL in MeOH	P-219S	1 mL
1000 µg/mL in Hexane	P-219S-H-10X	1 mL

Dioxdemeton-S-methyl, see Demeton-s-methyl-sulfone

Diphacinone

2-(Diphenylacetyl)-1,3-Diketohydrindene

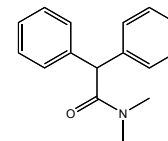
*Diphenadione*CAS 82-66-6 MF C₂₃H₁₆O₃ MW 340.37 PS S
SG 1.28 g/cm³ MP 146 °C BP ~338 °C SOL M,A,T

Matrix	Cat. No.	Unit
NEAT	P-315N	10 mg
100 µg/mL in MeOH	P-315S	1 mL

Diphenadione, see Diphacinone

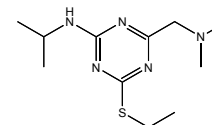
Diphenamid

N,N-dimethyl-2,2-diphenylacetamide

*Dymid, Enide*CAS 957-51-7 MF C₁₆H₁₇NO MW 239.31 PS S
SG 1.17 g/cm³ MP 135 °C SOL M,A,D,H,CN,EA

Matrix	Cat. No.	Unit
NEAT	P-173N	10 mg
100 µg/mL in MeOH	P-173S	1 mL

Dipropetryn

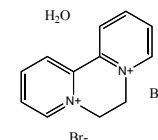
6-Ethylthio-N₂N₂-di-isopropyl-1,3,5-triazine-2,4-diamine*Sancap*CAS 4147-51-7 MF C₁₁H₂₁N₃S MW 255.38 PS S
SG 1.11 g/cm³ MP 104-106 °C BP 403 °C
FP 203 °C SOL A,D,T,H,M

Matrix	Cat. No.	Unit
NEAT	P-580N	10 mg
100 µg/mL in MeOH	P-580S	1 mL

Dipropyl isocinchomerate, see MGK-326

Diquat dibromide monohydrate

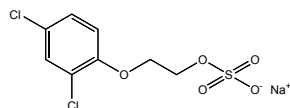
Diquat dibromide monohydrate

CAS 6385-62-2 MF C₁₂H₁₂N₂•2Br•H₂O MW 362.06
PS S SG 1.61 g/cm³ MP 335-340 °C SOL M,W

Matrix	Cat. No.	Unit
NEAT	P-231N	10 mg
100 µg/mL in MeOH	P-231S	1 mL
1000 µg/mL in MeOH	P-231S-10X	1 mL

**Disul, sodium salt**

Sodium 2,4-dichlorophenoxyethyl sulfate



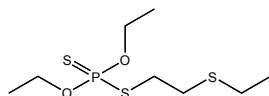
Crag Herbicide, Sesone

CAS 136-78-7 MF C₈H₇Cl₂O₅•Na MW 309.1 PS S
SG 1.70 g/cm³ MP 245 °C SOL M

Matrix	Cat. No.	Unit
NEAT	P-513N	10 mg
100 µg/mL in MeOH	P-513S	1 mL

Disulfoton

O,O-Diethyl S-2-ethylthioethyl phosphorodithioate



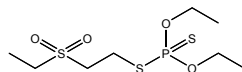
Disyston, Thiodemeton

CAS 298-04-4 MF C₈H₁₂O₂PS₃ MW 274.41 PS L
SG 1.14 g/cm³ MP <-25 °C BP 128 °C FP 133 °C
SOL M,A,D,H,T,CN,TP,EA

Matrix	Cat. No.	Unit
NEAT	P-042N	10 mg
100 µg/mL in MeOH	P-042S	1 mL
1000 µg/mL in MeOH	P-042S-10X	1 mL
1000 µg/mL in Hexane	P-042S-H-10X	1 mL

Disulfoton sulfone

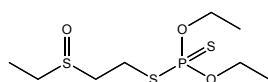
O,O-Diethyl S-2-ethylsulfonyl ethyl phosphorodithioate

CAS 2497-06-5 MF C₈H₁₆O₂PS₃ MW 306.41 PS L
SG 1.27 g/cm³ BP 423 °C FP 210 °C
SOL M,A,T,CN,EA

Matrix	Cat. No.	Unit
NEAT	P-582N	10 mg
100 µg/mL in MeOH	P-582S	1 mL

Disulfoton sulfoxide

O,O-Diethyl S-2-ethylsulfinylethyl phosphorodithioate



Oxydisulfoton

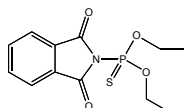
CAS 2497-07-6 MF C₈H₁₆O₂PS₃ MW 290.41 PS L
SG 1.27 g/cm³ BP 409 °C FP 201 °C SOL M,D,T,CN

Matrix	Cat. No.	Unit
NEAT	P-593N	10 mg
100 µg/mL in MeOH	P-593S	1 mL

Disyston, see Disulfoton

Ditalimfos

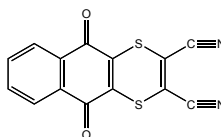
O,O-Diethyl phthalimidodiphosphonothioate

CAS 5131-24-8 MF C₁₂H₁₄NO₄PS MW 299.28
PS S SG 1.38 g/cm³ MP 89-91 °C BP 400 °C
FP 196 °C SOL M,CN

Matrix	Cat. No.	Unit
NEAT	P-546N	10 mg
100 µg/mL in MeOH	P-546S	1 mL

Dithianon

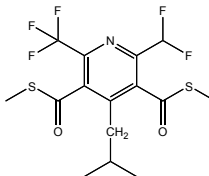
5,10-Dihydro-5,10-dioxonaphtho[2,3-b]-1,4-dithi-in-2,3-dicarbonitrile

CAS 3347-22-6 MF C₁₄H₈N₂O₂S₂ MW 296.33 PS S
SG 1.58 g/cm³ MP 215 °C FP >300 °C
SOL T,A,EA,H,M,CN

Matrix	Cat. No.	Unit
NEAT	P-725N	10 mg
100 µg/mL in Acetone	P-725S-A	1 mL

Dithiopyr

S,S'-Dimethyl-2-(difluoromethyl)-4-(2-methylpropyl)-6-(trifluoromethyl)-3,5-pyridinedicarbothioate

CAS 97886-45-8 MF C₁₆H₁₆F₅NO₂S₂ MW 401.44
PS S SG 1.33 g/cm³ MP 65 °C BP 460 °C
FP 232 °C SOL M,A,CN,H,T

Matrix	Cat. No.	Unit
NEAT	P-741N	10 mg
100 µg/mL in MeOH	P-741S	1 mL

Diurof, see Amitrole (ATA)

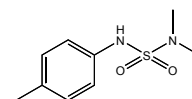
Diuron, see Karmex

2,3-Diuron, see 3-(2,3-Dichlorophenyl)-1,1-dimethylurea

DMDT, see Methoxychlor

DMST

N,N-Dimethyl-N'-tolylsulfonyldiamide



Tolylfluuanid metabolite

CAS 66840-71-9 MF C₉H₁₄N₂O₂S MW 214.29
PS S SG 1.26 g/cm³ MP 110 °C BP 320 °C
FP 147 °C SOL M

Matrix	Cat. No.	Unit
100 µg/mL in MeOH	P-572S	1 mL

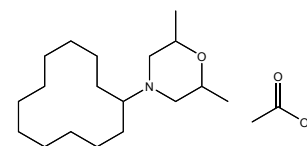
DNBP, see Dinoseb

DNOC, see 4,6-Dinitro-o-cresol

DNTBP, see Dinoterb

Dodemorph acetate

N-Cyclododecyl-2,6-dimethylmorpholinium acetate



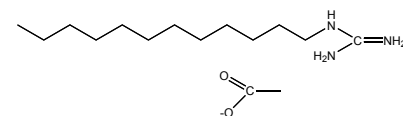
Meltatox

CAS 31717-87-0 MF C₁₈H₃₅NO₂•C₂H₄O₂ MW 341.53
PS L SG 0.93 g/cm³ BP 372 °C FP 110 °C
SOL EA,A,M

Matrix	Cat. No.	Unit
NEAT	P-385N	10 mg
100 µg/mL in MeOH	P-385S	1 mL

Dodine

1-Dodecylguanidinium acetate



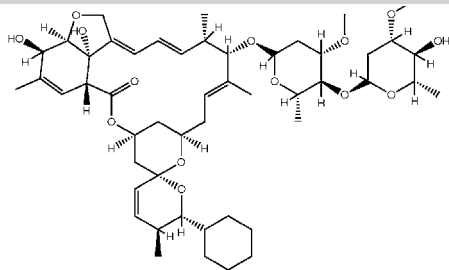
Cyprex

CAS 2439-10-3 MF C₁₃H₂₉N₃•C₂H₄O₂ MW 287.51
PS S MP 132-136 °C BP 353 °C FP 167 °C
SOL M,CN,A,W

Matrix	Cat. No.	Unit
NEAT	P-386N	10 mg
100 µg/mL in MeOH	P-386S	1 mL



Doramectin



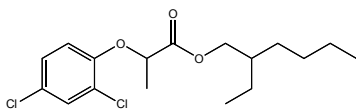
CAS 117704-25-3 **MF** C₅₀H₇₄O₁₄ **MW** 899.11 **PS S**
SG 1.35 g/cm³ **SOL** CN

Matrix	Cat. No.	Unit
NEAT	P-935N	10 mg
100 µg/mL in AcCN	P-935S-CN	1 mL

2,4-DP, see *Dichlorprop*

2,4-DP ethyl hexyl

2-Ethylhexyl 2-(2,4-dichlorophenoxy)propionate



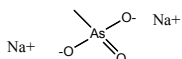
Dichlorprop, 2-ethylhexyl ester

CAS 79270-78-3 **MF** C₁₇H₂₄Cl₂O₃ **MW** 347.28 **PS L**
SG 1.13 g/cm³ **BP** 406 °C **FP** 136 °C **SOL** M

Matrix	Cat. No.	Unit
NEAT	P-429N	10 mg
100 µg/mL in MeOH	P-429S	1 mL

DSMA

Disodium methane arsonate hexahydrate

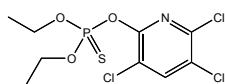


CAS 144-21-8 **MF** CH₃AsNa₂O₃ **MW** 183.94 **PS S**
SG 1.15 g/cm³ **MP** 135 °C **BP** 165 °C **SOL** M

Matrix	Cat. No.	Unit
NEAT	P-598N	10 mg
100 µg/mL in MeOH	P-598S	1 mL

Dursban

O,O-Diethyl O-3,5,6-trichloro-2-pyridyl phosphorothioate



Brodan, *Chlorpyrifos*, *Eradex*

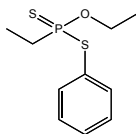
CAS 2921-88-2 **MF** C₉H₁₁Cl₃NO₃PS **MW** 350.59
PS S **SG** 1.44 g/cm³ **MP** 42 °C **BP** >400 °C
SOL M,A,D,H,T,CN,TP,EA

Matrix	Cat. No.	Unit
NEAT	P-094N	10 mg
100 µg/mL in MeOH	P-094S	1 mL
1000 µg/mL in MeOH	P-094S-10X	1 mL

Dybar, see *Fenuron*

Dyfonate

O-Ethyl S-phenyl (RS)-ethylphosphonodithioate



Fonofos

CAS 944-22-9 **MF** C₁₀H₁₅OPS₂ **MW** 246.33 **PS L**
SG 1.16 g/cm³ **MP** 30 °C **BP** 130 °C **FP** 179 °C
SOL M,A,D,H,T,CN,TP,EA

Matrix	Cat. No.	Unit
NEAT	P-087N	10 mg
100 µg/mL in MeOH	P-087S	1 mL
100 µg/mL in Hexane	P-087S-H	1 mL

Dymid, see *Diphenamid*

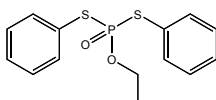
Dymron, see *Daimuron*

Dynam, see *Oxasulfuron*

Dyrene, see *Anilazine*

Edifenphos

O-ethyl S,S-diphenyl phosphorothioate



CAS 17109-49-8 **MF** C₁₄H₁₅O₂PS₂ **MW** 310.38 **PS L**
SG 1.27 g/cm³ **BP** 430 °C **FP** 214 °C
SOL H,D,IPA,T,CN,M

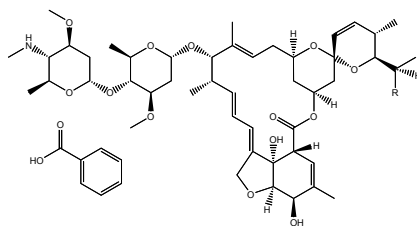
Matrix	Cat. No.	Unit
NEAT	P-368N	10 mg
100 µg/mL in MeOH	P-368S	1 mL

Ebufos, see *Cadusafos*

Ekatin, see *Thiometon*

Emamectin-benzoate

(4''R)-4''-deoxy-4''-(methylamino)avermectin
B1 benzoate (1:1)



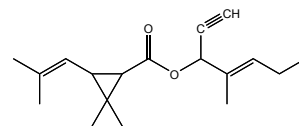
CAS 155569-91-8 **MF** C₄₈H₇₃NO₁₃+C₇H₆O₂
MW 994.21 **SOL** M,A,CN

Matrix	Cat. No.	Unit
NEAT	P-996N-5MG	5 mg
100 µg/mL in MeOH	P-996S	1 mL

Embassador™, see *Diniconazol*

Empenthrin

(E)-(RS)-1-Ethynl-2-methylpent-2-enyl
(1R,3RS;1R,3SR)-2,2-dimethyl-3-(2-methylprop-1-enyl)cyclopropanecarboxylate



CAS 54406-48-3 **MF** C₁₈H₂₆O₂ **MW** 274.4 **PS L**
SG 0.93 g/cm³ **BP** 296 °C **SOL** H,A,M

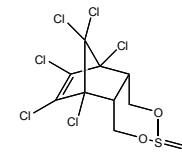
Matrix	Cat. No.	Unit
NEAT	P-708N	10 mg

alpha-Endosulfan, see *Endosulfan I*

beta-Endosulfan, see *Endosulfan II*

Endosulfan I

endo-1,4,5,6,7,7-Hexachloro-5-norbornene-2,3-dimethanol, cyclic sulfite



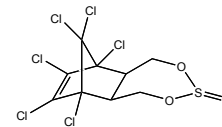
alpha-Endosulfan, *alpha-Thiodan*

CAS 959-98-8 **MF** C₈H₆Cl₆O₃S **MW** 406.92 **PS S**
SG 1.94 g/cm³ **MP** 109.2 °C **BP** 450 °C **FP** 226 °C
SOL M,A,D,H,T,CN,TP,EA

Matrix	Cat. No.	Unit
NEAT	P-091N	10 mg
100 µg/mL in MeOH	P-091S	1 mL
1000 µg/mL in MeOH	P-091S-10X	1 mL

Endosulfan II

3-alpha,5a-alpha,6-beta,9-beta,9a-alpha-
(1,4,5,6,7,7-Hexachloro-8,9,10-trinorborn-5-ene-2,3-ylenebismethylene) sulfite



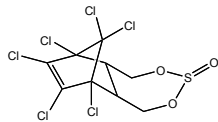
beta-Endosulfan, *Thiodan II*

CAS 33213-65-9 **MF** C₉H₆Cl₆O₃S **MW** 406.91 **PS S**
SG 1.94 g/cm³ **MP** 213 °C **BP** 450 °C **FP** 226 °C
SOL M,A,D,H,T,CN,TP,EA

Matrix	Cat. No.	Unit
NEAT	P-092N	10 mg
100 µg/mL in MeOH	P-092S	1 mL
1000 µg/mL in MeOH	P-092S-10X	1 mL

**Endosulfan, mixed isomers**

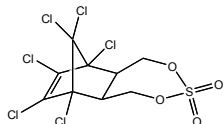
(1,4,5,6,7,7-Hexachloro-8,9,10-trinorborn-5-en-2,3-ylenebismethylene)sulfite

**CAS** 115-29-7 **MF** C₉H₆Cl₆O₃S **MW** 406.92 **PS** S
SG 1.80 g/cm³ **MP** 106 °C **SOL** M,A,D,H,T,EA

Matrix	Cat. No.	Unit
NEAT	P-435N	10 mg
100 µg/mL in MeOH	P-435S	1 mL
1000 µg/mL in MeOH	P-435S-10X	1 mL

Endosulfan sulfate

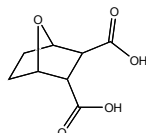
Hexachloro-hexahydro-methano-benzodioxathiepin-dioxide

**CAS** 1031-07-8 **MF** C₉H₆Cl₆O₄S **MW** 422.92 **PS** S
SG 1.94 g/cm³ **MP** 180 °C **BP** 481 °C **FP** 244 °C
SOL M,A,D,H,T,CN,EA

Matrix	Cat. No.	Unit
NEAT	P-145N	10 mg
100 µg/mL in MeOH	P-145S	1 mL
1000 µg/mL in MeOH	P-145S-10X	1 mL

Endothall ▲

7-Oxabicyclo[2.2.1]heptane-2,3-dicarboxylic acid



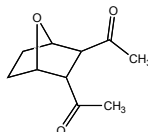
3,6-Endoxohexahydrophthalic acid

CAS 145-73-3 **MF** C₈H₁₀O₅ **MW** 186.16 **PS** S
SG 1.43 g/cm³ **MP** 144 °C **SOL** M,A,CN,IPA,W

Matrix	Cat. No.	Unit
NEAT	P-183N	10 mg
100 µg/mL in MeOH	P-183S ▲	1 mL
1000 µg/mL in MeOH	P-183S-10X▲	1 mL

Endothall dimethyl ester

7-Oxabicyclo [2.2.1] heptane-2,3-dicarboxylic acid, methyl ester

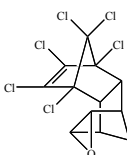
**CAS** N/A **MF** C₁₀H₁₄O₃ **MW** 182.22 **PS** S **SOL** M

Matrix	Cat. No.	Unit
NEAT	P-603N	10 mg
100 µg/mL in MeOH	P-603S	1 mL

3,6-Endoxohexahydrophthalic acid, see Endothall

Endrin

Hexachloroepoxyoctahydro-endo,endo-dimethanonaphthalene



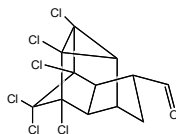
Hexadrin

CAS 72-20-8 **MF** C₁₂H₈Cl₆O **MW** 380.91 **PS** S
SG 1.70 g/cm³ **MP** ~200 °C
SOL M,A,D,H,T,CN,TP,EA

Matrix	Cat. No.	Unit
NEAT	P-045N	10 mg
100 µg/mL in MeOH	P-045S	1 mL
1000 µg/mL in MeOH	P-045S-10X	1 mL

Endrin aldehyde

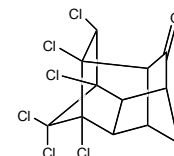
(1alpha,2beta,2abeta,4beta,4abeta,5beta,6beta,6bbeta,7R*)-2,2a,3,3,4,7-Hexachlorodecahydro-1,2,4-methenocyclopenta(cd)pentalene-5-carboxaldehyde

**CAS** 7421-93-4 **MF** C₁₂H₈Cl₆O **MW** 380.91 **PS** S
MP 152 °C **SOL** M,A,D,H,T,CN,EA

Matrix	Cat. No.	Unit
NEAT	P-046N	10 mg
100 µg/mL in MeOH	P-046S	1 mL
1000 µg/mL in MeOH	P-046S-10X	1 mL

Endrin ketone

Hexachloro-decahydro-metheno-3H-cyclopenta(a)pentalene-3-one



delta-Ketoendrin

CAS 53494-70-5 **MF** C₁₂H₈Cl₆O **MW** 380.91 **PS** L
SG 0.78 g/cm³ **MP** -48 °C **BP** 81-82 °C **FP** 2 °C
SOL M,A,D,H,T,CN,TP,EA

Matrix	Cat. No.	Unit
NEAT	P-146N	10 mg
100 µg/mL in MeOH	P-146S	1 mL

Enide, see Diphenamid

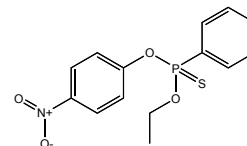
Enilconazole, see Imazalil

ENT 8184, see MGK-264

Entex, see Fenthion

EPN

O-Ethyl O-4-nitrophenyl phenylphosphonothioate

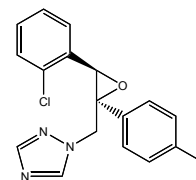
**CAS** 2104-64-5 **MF** C₁₄H₁₄NO₄PS **MW** 323.32 **PS** S
SG 1.27 g/cm³ **MP** 35 °C **BP** 215 °C
SOL M,A,D,H,T,CN,TP,EA

Matrix	Cat. No.	Unit
NEAT	P-220N	10 mg
100 µg/mL in Acetone	P-220S-A	1 mL
1000 µg/mL in Hexane	P-220S-H-10X	1 mL

Eptam, see EPTC

Epoxiconazole

(2RS,3SR)-1-[3-(2-chlorophenyl)-2,3-epoxy-2-(4-fluorophenyl)propyl]-1H-1,2,4-triazole

**CAS** 133855-98-8 **MF** C₁₇H₁₃ClFN₃O **MW** 329.76
PS S **SG** 1.38 g/cm³ **MP** 136-137 °C
BP Decom. @ 120 °C **FP** >310 °C
SOL EA,A,T,D,CN

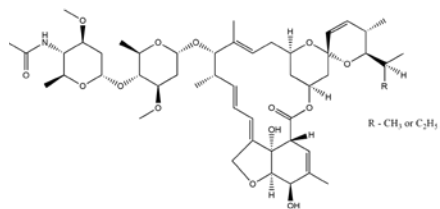
Matrix	Cat. No.	Unit
NEAT	P-784N	10 mg
100 µg/mL in MeOH	P-784S	1 mL

▲ Pesticides containing a carboxyl group may autoesterify in Methanol. These standards are intended for use after making the methyl derivative. For analysis of the parent compound we suggest a non-hydroxylic solvent such as Acetonitrile.



Pesticide Standards

Eprinomectin

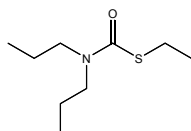


CAS 123997-26-2 **MF** C₄₈H₇₃NO₁₄ **MW** 900.10
SG 1.14 g/cm³ **BP** 240-242 °C
PS L **MP** 180 °C
SOL CN

Matrix	Cat. No.	Unit
100 µg/mL in AcCN	P-959S-CN	1 mL

EPTC

S-Ethyl Di-N,N-propylthiocarbamate



Eptam

CAS 759-94-4 **MF** C₉H₁₉NOS **MW** 189.32 **PS** L
SG 0.95 g/cm³ **BP** 127 °C **FP** 116 °C
SOL M,A,D,H,CN,TP,EA,W

Matrix	Cat. No.	Unit
NEAT	P-238N	10 mg
100 µg/mL in MeOH	P-238S	1 mL

Eradex, see *Dursban*

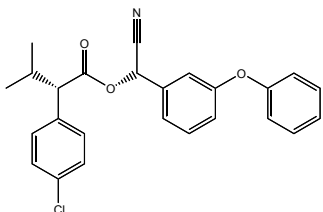
EsbioI, see *S-Bioallethrin*

Esbiothrin, see *Allethrin*

1,2-Ethanedithiolbis(2-mercaptoethyl)carbamate, zinc complex, see *Zineb*

Esfenvalerate

4-Chloro- α -(1-methylethyl) benzeneacetic acid, (S-(R*,R*))-cyano(3-phenoxyphenyl)methyl ester



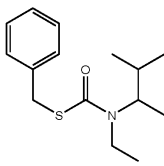
Asana

CAS 66230-04-4 **MF** C₂₅H₂₂ClNO₃ **MW** 419.9 **PS** S
SG 1.21 g/cm³ **MP** 59-60 °C **BP** 540 °C **FP** 280 °C
SOL M,A,D,H,CN,TP,EA

Matrix	Cat. No.	Unit
NEAT	P-525N	10 mg
100 µg/mL in MeOH	P-525S	1 mL

Esprocarb

S-benzyl (RS)-1,2-dimethylpropyl(ethyl)thiocarbamate

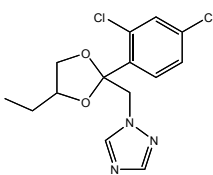


CAS 85785-20-2 **MF** C₁₅H₂₃NOS **MW** 265.42 **PS** L
SG 1.03 g/cm³ **MP** 25 °C **BP** 135 °C **SOL** M,A,CN

Matrix	Cat. No.	Unit
100 µg/mL in MeOH	P-617S	1 mL

Etaconazole

1-(2-(2,4-Dichlorophenyl)-4-ethyl-1,3-dioxolan-2-yl) methyl-1H-1,2,4-triazole

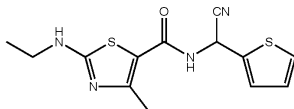


CAS 60207-93-4 **MF** C₁₄H₁₅Cl₂N₃O₂ **MW** 328.19
PS S **SG** 1.40 g/cm³ **MP** 84 °C **SOL** A,D,H,M,CN

Matrix	Cat. No.	Unit
NEAT	P-644N	10 mg
100 µg/mL in MeOH	P-644S	1 mL

Ethaboxam

N-[cyano(thiophen-2-yl)methyl]-4-ethyl-2-(ethylamino)-1,3-thiazole-5-carboxamide



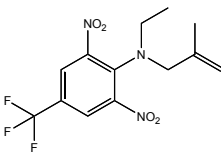
Guardian

CAS 162650-77-3 **MF** C₁₄H₁₆N₄O₂S **MW** 320.43
PS S **SG** 1.32 g/cm³ **MP** 185 °C **BP** 526 °C
SOL EA,A,CN,M

Matrix	Cat. No.	Unit
100 µg/mL in AcCN	P-1115S-CN	1 mL

Ethalfuralin

N-Ethyl- α , α , α -trifluoro-N-(2-methylallyl)-2,6-dinitro-p-toluidine

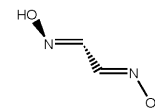


Sonalan

CAS 55283-68-6 **MF** C₁₃H₁₄F₃N₂O₄ **MW** 333.3 **PS** S
SG 1.34 g/cm³ **MP** 55-56 °C **BP** 367 °C **FP** 177 °C
SOL M,A,D,H,T,CN,TP,EA

Matrix	Cat. No.	Unit
NEAT	P-269N	10 mg
100 µg/mL in MeOH	P-269S	1 mL

Ethanedial dioxime

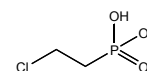


CAS 557-30-2 **MF** C₂H₄N₂O₂ **MW** 88.07 **PS** L
SG 1.14 g/cm³ **MP** -15 °C **BP** 240-242 °C
FP 188 °C **SOL** M

Matrix	Cat. No.	Unit
NEAT	P-1070N	10 mg
100 µg/mL in MeOH	P-1070S	1 mL

Ethephon

(2-Chloroethyl)phosphonic acid

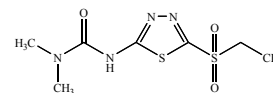


CAS 16672-87-0 **MF** C₂H₈ClO₃P **MW** 144.49 **PS** S
SG 1.41 g/cm³ **MP** 75 °C **BP** ~260 °C
SOL M,A,EA,CN,W

Matrix	Cat. No.	Unit
NEAT	P-239N	10 mg
100 µg/mL in MeOH	P-239S	1 mL

Ethidimuron

1-(5-Ethylsulfonyl-1,3,4-thiadiazol-2-yl)-1,3-dimethylurea

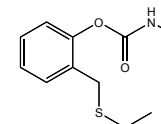


CAS 30043-49-3 **MF** C₇H₁₂N₄O₃S₂ **MW** 264.35
PS S **SG** 1.44 g/cm³ **MP** 156 °C **FP** >100 °C
SOL M,A,CN,H,IPA

Matrix	Cat. No.	Unit
NEAT	P-364N	10 mg
100 µg/mL in MeOH	P-364S	1 mL

Ethiofencarb

α -Ethylthio-o-tolyl methylcarbamate



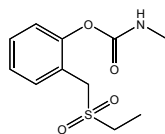
Croneton

CAS 29973-13-5 **MF** C₁₁H₁₅NO₂S **MW** 225.31
PS S **SG** 1.13 g/cm³ **MP** 33-34 °C **BP** 327 °C
FP 152 °C **SOL** M,A,T,CN,D,IPA,W

Matrix	Cat. No.	Unit
NEAT	P-448N	10 mg
100 µg/mL in MeOH	P-448S	1 mL

**Ethiofencarb sulfone**

2-((Ethylsulfonyl)methyl)phenol methylcarbamate



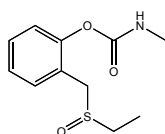
Croneton sulfone

CAS 53380-23-7 **MF** C₁₁H₁₅NO₃S **MW** 257.31
PS S **SG** 1.25 g/cm³ **MP** 126-129 °C **BP** 449 °C
FP 226 °C **SOL** CN

Matrix	Cat. No.	Unit
100 µg/mL in AcCN	P-824S-CN	1 mL

Ethiofencarb sulfoxide

2-((ethylsulfanyl)methyl)phenolmethylcarbamate

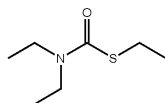


CAS 53380-22-6 **MF** C₁₁H₁₅NO₃S **MW** 241.31
SOL CN

Matrix	Cat. No.	Unit
100 µg/mL in AcCN	P-825S-CN	1 mL

Ethiolat

S-Ethyl diethylcarbamothioate

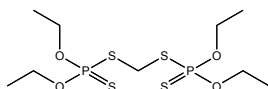


CAS 2941-55-1 **MF** C₇H₁₅NOS **MW** 161.27 **PS** L
SG 0.97 g/cm³ **BP** 142-145 °C **SOL** A,CN

Matrix	Cat. No.	Unit
NEAT	P-785N	10 mg
100 µg/mL in AcCN	P-785S-CN	1 mL

Ethion

O,O,O',O'-Tetraethyl S,S'methylene bis(phosphorodithioate)



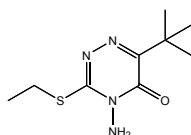
Diethion

CAS 563-12-2 **MF** C₈H₂₂O₄P₂S₄ **MW** 384.48 **PS** L
SG 1.22 g/cm³ **BP** 364-165 °C **FP** 176 °C
SOL M,A,D,H,T,CN,TP,EA

Matrix	Cat. No.	Unit
NEAT	P-048N	10 mg
100 µg/mL in MeOH	P-048S	1 mL
1000 µg/mL in Hexane	P-048S-H-10X	1 mL

Ethiozin

4-Amino-6-(1,1-dimethylethyl)-3-(ethylthio)-1,2,4-triazine-5(4H)-one

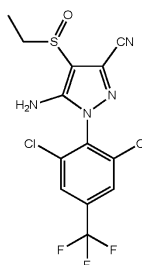


CAS 64529-56-2 **MF** C₉H₁₆N₄OS **MW** 228.35 **PS** L
SG 1.27 g/cm³ **BP** 328 °C **FP** 152 °C
SOL D,IPA,T,M

Matrix	Cat. No.	Unit
NEAT	P-660N	10 mg
100 µg/mL in MeOH	P-660S	1 mL

Ethiprole

5-Amino-1-(2,6-dichloro-a,a,a-trifluoro-p-tolyl)-4-ethylsulfanylpyrazole-3-carbonitrile

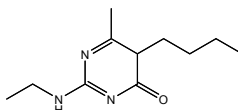


CAS 181587-01-9 **MF** C₁₃H₁₀Cl₂F₃N₄OS **MW** 397.20
PS S **SG** 1.75 g/cm³ **MP** 149-154 °C **FP** >200 °C
SOL CN

Matrix	Cat. No.	Unit
Neat	P-964N	10 mg
100 µg/mL in AcCN	P-964S-CN	1 mL

Ethirimol

5-Butyl-2-ethylamino-6-methylpyrimidin-4-ol

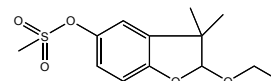


CAS 23947-60-6 **MF** C₁₁H₁₉N₃O **MW** 209.33
PS S **SG** 1.10 g/cm³ **MP** 159-160 °C **BP** 306 °C
FP 139 °C **SOL** M,CN

Matrix	Cat. No.	Unit
NEAT	P-645N	10 mg
100 µg/mL in MeOH	P-645S	1 mL

Ethofumesate

(±)-2-Ethoxy-2,3-dihydro-3,3-dimethylbenzofuran-5-yl methanesulfonate

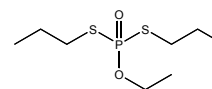


CAS 26225-79-6 **MF** C₁₃H₁₈O₅S **MW** 286.35 **PS** S
SG 1.27 g/cm³ **MP** 70-72 °C **BP** 409 °C **FP** 201 °C
SOL M,A,D,CN,EA,IPA

Matrix	Cat. No.	Unit
NEAT	P-387N	10 mg
100 µg/mL in MeOH	P-387S	1 mL

*Ethophenprox, see Etofenprox***Ethoprop**

O-Ethyl S,S-dipropyl phosphorodithioate



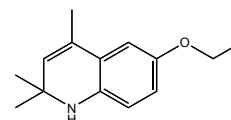
Mocap, Prophos

CAS 13194-48-4 **MF** C₈H₁₉O₂PS₂ **MW** 242.34 **PS** L
SG 1.09 g/cm³ **BP** 89 °C **FP** 140 °C
SOL M,A,D,H,T,CN,TP,EA,W

Matrix	Cat. No.	Unit
NEAT	P-129N	10 mg
100 µg/mL in MeOH	P-129S	1 mL
1000 µg/mL in Hexane	P-129S-H-10X	1 mL

Ethoxyquin

1,2-Dihydro-6-ethoxy-2,2,4-trimethyl quinoline



CAS 91-53-2 **MF** C₁₄H₁₉NO **MW** 217.34 **PS** L
SG 1.03 g/cm³ **BP** 123-125 °C **FP** 107 °C
SOL M,A,EA,T,CN

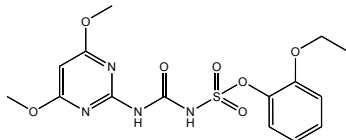
Matrix	Cat. No.	Unit
NEAT	P-388N	10 mg
100 µg/mL in MeOH	P-388S	1 mL



Pesticide Standards

Ethoxysulfuron

1-(4,6-Dimethoxy-2-pyrimidin-2-yl)-
3-(2-ethoxyphenoxy)sulfonylurea



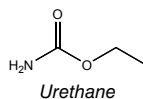
CAS 126801-58-9 **MF** C₁₈H₁₈N₄O₇S **MW** 398.39
PS S **SG** 1.44 g/cm³ **MP** 145 °C
SOL H,T,A,M,CN,D,IPA,EA

Matrix	Cat. No.	Unit
NEAT	P-847N	10 mg
100 µg/mL in AcCN	P-847S-CN	1 mL

Ethyl azinphos, see Azinphos-ethyl

Ethyl carbamate

Carbamic acid, ethyl ester



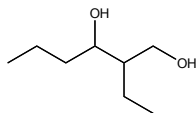
CAS 51-79-6 **MF** C₃H₇NO₂ **MW** 89.11 **PS S**
SG 0.99 g/cm³ **MP** 48-50 °C **BP** 182-184 °C
SOL M,D

Matrix	Cat. No.	Unit
NEAT	P-419N	10 mg
100 µg/mL in MeOH	P-419S	1 mL

*Ethyl (2,4-Dichlorophenoxy)acetate, see 2,4-D
Ethyl ester*

Ethyl hexanediol (mixed isomers)

Ethyl hexanediol (mixed isomers)



CAS 94-96-2 **MF** C₈H₁₈O₂ **MW** 146.26 **PS L**
SG 0.93 g/cm³ **MP** -40 °C **BP** 244.2 °C **SOL** M

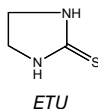
Matrix	Cat. No.	Unit
NEAT	P-389N	10 mg
100 µg/mL in MeOH	P-389S	1 mL

Ethyl parathion, see Parathion

Ethylan, see Perthane

Ethylene thiourea

2-Imidazolidinethione

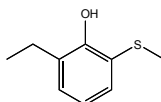


CAS 96-45-7 **MF** C₃H₆N₂S **MW** 102.16 **PS S**
SG 1.42 g/cm³ **MP** 195-204 °C **FP** 252 °C
SOL M,H,EA

Matrix	Cat. No.	Unit
NEAT	P-588N	10 mg
100 µg/mL in MeOH	P-588S	1 mL

2-Ethylthiomethyl phenol

2-Ethylthiomethyl phenol

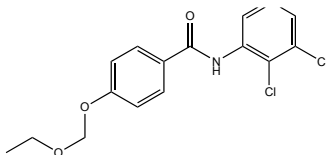


CAS N/A **MF** C₉H₁₂OS **MW** 168.26 **SOL** M

Matrix	Cat. No.	Unit
100 µg/mL in MeOH	P-423S	1 mL
1000 µg/mL in MeOH	P-423S-10X	1 mL

Etobenzanid

2',3'-Dichloro-4-ethoxymethoxybenzanilide



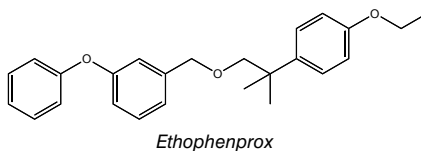
CAS 79540-50-4 **MF** C₁₆H₁₅Cl₂NO₃ **MW** 340.20
PS S **MP** 92-93 °C **SOL** CN

Matrix	Cat. No.	Unit
100 µg/mL in AcCN	P-1136S-CN	1 mL

Etoc, see Prallethrin

Etofenprox

2-(4-ethoxyphenyl)-2-methylpropyl
3-phenoxybenzyl ether

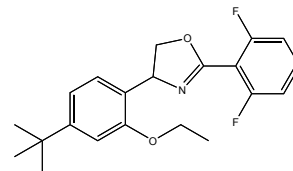


CAS 80844-07-1 **MF** C₂₅H₂₈O₃ **MW** 376.49 **PS S**
SG 1.07 g/cm³ **MP** 37 °C **BP** 482 °C **FP** 165 °C
SOL EA,A,M,CN,T,H,D

Matrix	Cat. No.	Unit
NEAT	P-848N	10 mg
100 µg/mL in AcCN	P-848S-CN	1 mL

Etoxazole

2-(2,6-Difluorophenyl)-4-[4-(1,1-dimethylethyl)-2-ethoxyphenyl]-4,5-dihydrooxazole



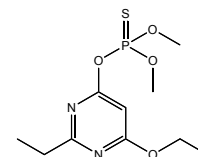
CAS 153233-91-1 **MF** C₂₁H₂₃F₂NO₂ **MW** 359.41
PS S **SG** 1.24 g/cm³ **MP** 102 °C **FP** 457 °C
SOL M,A,CN,EA,H

Matrix	Cat. No.	Unit
100 µg/mL in MeOH	P-991S	1 mL

Etridiazole, see Terrazole

Etrimfos

O-6-Ethoxy-2-ethylpyrimidin-4-yl
O,O-dimethyl phosphorothioate



CAS 38260-54-7 **MF** C₁₆H₁₇N₂O₃PS **MW** 292.29
PS L **SG** 1.20 g/cm³ **FP** >100 °C **SOL** M,A,D,T,CN

Matrix	Cat. No.	Unit
NEAT	P-480N	10 mg
100 µg/mL in MeOH	P-480S	1 mL

Euparen, see Dichlofluanid

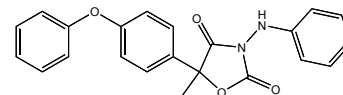
ETU, see Ethylene thiourea

Facet, see Quinclorac

Famophos, see Famphur

Famoxadon

3-anilino-5-methyl-5-(4-phenoxyphenyl)-
1,3-oxazolidine-2,4-dione

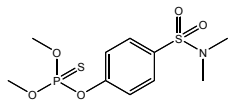


CAS 131807-57-3 **MF** C₂₂H₁₉N₂O₄ **MW** 374.39 **PS S**
SG 1.31 g/cm³ **MP** 142 °C **SOL** A,T,H,EA,M,CN

Matrix	Cat. No.	Unit
100 µg/mL in AcCN	P-849S-CN	1 mL

**Famphur**

O-4-Dimethylsulfamoylphenyl
O,O-dimethyl phosphorothioate



Famphos

CAS 52-85-7 **MF** C₁₀H₁₆NO₃PS₂ **MW** 325.36 **PS** S
SG 0.95 g/cm³ **MP** 52.5-53.5 °C **FP** >100 °C
SOL M,D,H,T,CN,TP

Matrix	Cat. No.	Unit
NEAT	P-147N	10 mg
100 µg/mL in MeOH	P-147S	1 mL

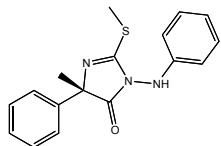
Faneron, see *Bromofenoxim*

Far-Go, see *Triallate*

Fenac, see *Fenatrol*

Fenamidone

(S)-1-Anilino-4-methyl-2-methylthio-4-phenyl-
2-imidazolin-5-one

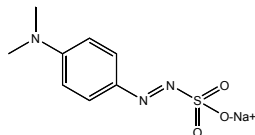


CAS 161326-34-7 **MF** C₁₇H₁₇N₃OS **MW** 311.4
PS S **SG** 1.21 g/cm³ **MP** 199-200 °C **BP** 443 °C
FP 222 °C **CS** **OL** M,A,CN,EA,D

Matrix	Cat. No.	Unit
NEAT	P-850N	10 mg
100 µg/mL in AcCN	P-850S-CN	1 mL

Fenamiosulf

Sodium 4-dimethylaminobenzenediazosulfonate



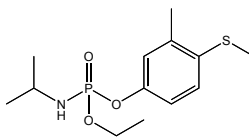
Dexon, Lesan

CAS 140-56-7 **MF** C₈H₁₀N₃O₃Na **MW** 251.26
PS S **SG** 0.93 g/cm³ **MP** 200 °C **BP** 138 °C **SOL** M

Matrix	Cat. No.	Unit
NEAT	P-058N	10 mg
100 µg/mL in MeOH	P-058S	1 mL
1000 µg/mL in MeOH	P-058S-10X	1 mL

Fenamiphos

Ethyl 4-methylthio-m-tolyl isopropylphosphoramidate



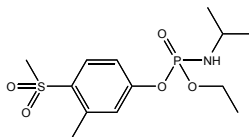
Phenamiphos

CAS 22224-92-6 **MF** C₁₃H₂₂NO₃PS **MW** 303.36
PS S **SG** 1.19 g/cm³ **MP** 49 °C **FP** 200 °C
SOL M,A,D,H,T,CN,TP,EA,IPA

Matrix	Cat. No.	Unit
NEAT	P-114N	10 mg
100 µg/mL in MeOH	P-114S	1 mL

Fenamiphos sulfone

O-Ethyl-O-(3-methyl-4-methylsulfonylphenyl)
isopropylamidophosphate

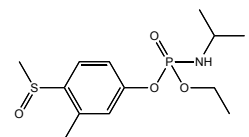


CAS 31972-44-8 **MF** C₁₅H₂₂NO₃PS₂ **MW** 335.36
PS S **SG** 1.21 g/cm³ **BP** 457 °C **FP** >80 °C
SOL M,T,CN

Matrix	Cat. No.	Unit
NEAT	P-623N	10 mg
100 µg/mL in MeOH	P-623S	1 mL

Fenamiphos sulfoxide

N-Isopropylamidophosphoric acid ethyl 4-(methyl-
sulfinyl)-3-methylphenyl ester



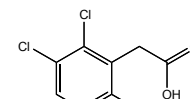
CAS 31972-43-7 **MF** C₁₃H₂₂NO₄PS **MW** 319.36
PS S **SG** 1.22 g/cm³ **BP** 436 °C **FP** 218 °C
SOL M,T,CN

Matrix	Cat. No.	Unit
NEAT	P-622N	10 mg
100 µg/mL in MeOH	P-622S	1 mL

Fenarimol, see *Bloc*

Fenatrol

2,3,6-Trichlorophenylacetic acid



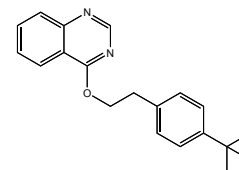
Chlorfenac, Fenac

CAS 85-34-7 **MF** C₈H₇Cl₃O₂ **MW** 239.48 **PS** S
MP 151-156 °C **BP** 354 °C **FP** 168 °C **SOL** M

Matrix	Cat. No.	Unit
NEAT	P-319N	10 mg
100 µg/mL in MeOH	P-319S ▲	1 mL

Fenazaquin

4-tert-Butylphenethyl quinazolin-4-yl ether

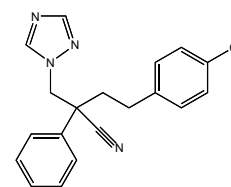


CAS 120928-09-8 **MF** C₂₀H₂₂N₂O **MW** 306.4
SOL M,A,H,CN,T,D,IPA

Matrix	Cat. No.	Unit
100 µg/mL in Hexane	P-787S-H	1 mL

Fenbuconazole

4-(4-Chlorophenyl)-2-phenyl-2-(1H-1,2,4-triazol-1-
ylmethyl)butyronitrile



Indar

CAS 114369-43-6 **MF** C₁₉H₁₇ClN₄ **MW** 336.85
PS S **SG** 1.20 g/cm³ **MP** 124-126 °C
SOL M,A,D,CN,TP,EA

Matrix	Cat. No.	Unit
NEAT	P-662N	10 mg
100 µg/mL in MeOH	P-662S	1 mL

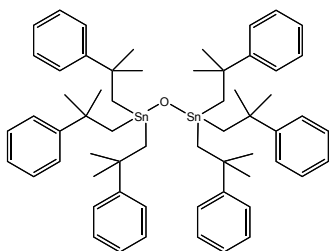
▲ Pesticides containing a carboxyl group may autoesterify in Methanol. These standards are intended for use after making the methyl derivative. For analysis of the parent compound we suggest a non-hydroxylic solvent such as Acetonitrile.



Pesticide Standards

Fenbutatin oxide

Hexakis(2-methyl-2-phenylpropyl)distannoxane



Vendex

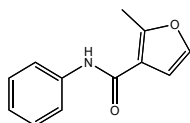
CAS 13356-08-6 **MF** C₆₀H₇₈OSn₂ **MW** 1052.68
PS S SG 1.30 g/cm³ **MP** 142-145 °C **BP** 850 °C
FP 468 °C **SOL** H,T,A,D,M,CN,IPA,EA

Matrix	Cat. No.	Unit
NEAT	P-481N	10 mg
100 µg/mL in Acetone	P-481S-A	1 mL

Fenchlorphos, see Ronnel

Fenfuram

2-Methylfuran-3-carboxanilide



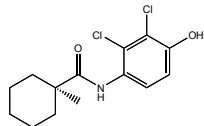
Pano-ram

CAS 24691-80-3 **MF** C₁₂H₁₁NO₂ **MW** 201.22 **PS S**
MP 109-110 °C **SOL** A,M

Matrix	Cat. No.	Unit
NEAT	P-896N	10 mg
100 µg/mL in MeOH	P-896S	1 mL

Fenhexamid

N-(2,3-Dichloro-4-hydroxyphenyl)-1-methylcyclohexanecarboxamide

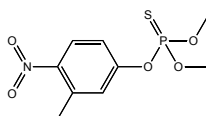


CAS 126833-17-8 **MF** C₁₄H₁₇Cl₂NO₂ **MW** 302.2
PS S SG 1.34 g/cm³ **MP** 153 °C **FP** 295 °C
SOL A,D,H,T,M,CN,IPA

Matrix	Cat. No.	Unit
NEAT	P-783N	10 mg
100 µg/mL in MeOH	P-783S	1 mL

Fenitrothion

O,O-dimethyl O-4-nitro-m-tolyl phosphorothioate



MEP

CAS 122-14-5 **MF** C₉H₁₁NO₃PS **MW** 277.24 **PS L**
SG 1.33 g/cm³ **MP** 3.4 °C **BP** 145 °C **FP** >100 °C
SOL M,A,D,H,T,CN,TP,EA,IPA

Matrix	Cat. No.	Unit
NEAT	P-259N	10 mg
100 µg/mL in MeOH	P-259S	1 mL

Fenobucarb, see Baycarb

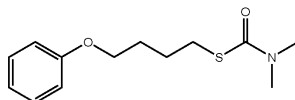
Fenoprop, see Silvex

Fenoprop 2-ethylhexyl ester, see Silvex 2-ethylhexyl ester

Fenoprop methyl ester, see Silvex methyl ester

Fenothiocarb

S-(4-phenoxybutyl) dimethylcarbamothioate

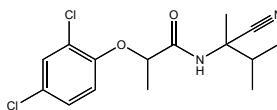


CAS 62850-32-2 **MF** C₁₃H₁₉NO₂S **MW** 253.36
PS S SG 1.21 g/cm³ **MP** 39-40 °C **BP** 372 °C
FP 179 °C **SOL** CN,A,M,H,T,EA,D

Matrix	Cat. No.	Unit
100 µg/mL in MeOH	P-1021S	1 mL
50 µg/mL in MeOH	P-1021S-0.5X	1 mL

Fenoxanil

N-(1-cyano-1,2-dimethylpropyl)-2-(2,4-dichlorophenoxy)propanamide



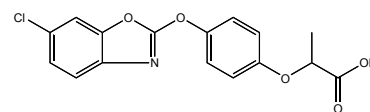
CAS 115852-48-7 **MF** C₁₅H₁₆Cl₂N₂O₂ **MW** 329.22
PS S SG 1.22 g/cm³ **MP** 71 °C
BP Decomp. 420 °C **FP** 420 °C **SOL** M,A,W

Matrix	Cat. No.	Unit
NEAT	P-997N	10 mg
100 µg/mL in MeOH	P-997S	1 mL

▲ Pesticides containing a carboxyl group may autoesterify in Methanol. These standards are intended for use after making the methyl derivative. For analysis of the parent compound we suggest a non-hydroxylic solvent such as Acetonitrile.

Fenoxaprop

2-[4-[(6-chloro-2-benzoxazolyl)oxy]phenoxy] propanoic acid

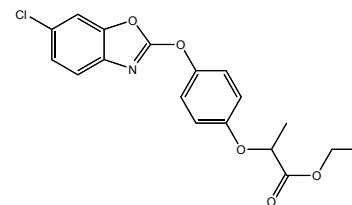


CAS 95617-09-7 **MF** C₁₆H₁₂ClNO₅ **MW** 333.72
PS S SG 1.42 g/cm³ **MP** 166-168 °C
BP 506-507 °C **FP** 260 °C **SOL** A

Matrix	Cat. No.	Unit
NEAT	P-884N	10 mg
100 µg/mL in MeOH	P-884S ▲	1 mL

Fenoxaprop-ethyl

Ethyl 2-[4-[(6-chloro-1,3-benzoxazol-2-yl)oxy]phenoxy]propanoate

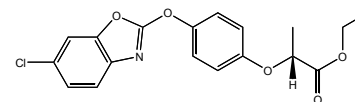


CAS 66441-23-4 **MF** C₁₈H₁₆ClNO₅ **MW** 361.8 **PS S**
SG 1.30 g/cm³ **MP** 84-85 °C
SOL M,A,T,CN,TP,EA,H

Matrix	Cat. No.	Unit
NEAT	P-365N	10 mg
100 µg/mL in MeOH	P-365S	1 mL

Fenoxaprop-p-ethyl

(+) -Ethyl-2-[4-[(6-chloro-2-benzoxazolyl)oxy]phenoxy] propanoate

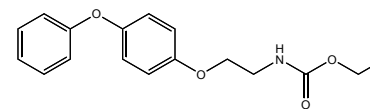


CAS 71283-80-2 **MF** C₁₈H₁₆ClNO₅ **MW** 361.78
PS S SG 1.31 g/cm³ **MP** 80-84 °C **BP** 478 °C
FP 242 °C **SOL** H,A,M,EA,CN,T

Matrix	Cat. No.	Unit
NEAT	P-694N	10 mg
100 µg/mL in MeOH	P-694S	1 mL

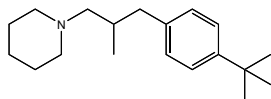
Fenoxycarb

Ethyl 2-(4-phenoxyphenoxy)ethylcarbamate



CAS 72940-01-8 **MF** C₁₇H₁₉NO₄ **MW** 301.37 **PS S**
SG 1.15 g/cm³ **MP** 53 °C **BP** 547 °C **FP** 230 °C
SOL M,CN,A,T

Matrix	Cat. No.	Unit
NEAT	P-686N	10 mg
100 µg/mL in MeOH	P-686S	1 mL

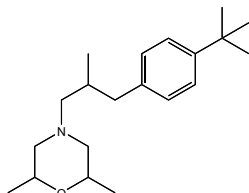

Fenpropathrin, see Danitol
Fenpropidin


CAS 67306-00-7 **MF** C₁₉H₃₁N **MW** 273.46 **PS L**
SG 0.91 g/cm³ **MP** -65 °C **BP** Decomp. ~243 °C
FP 156 °C **SOL** M,A,CN,EA

Matrix	Cat. No.	Unit
NEAT	P-802N	10 mg
100 µg/mL in MeOH	P-802S	1 mL

Fenpropimorph

cis-4-[3-(4-tert-Butylphenyl)-2-methylpropyl]-
2,6-dimethylmorpholine

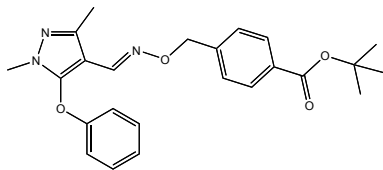


CAS 67564-91-4 **MF** C₂₀H₃₃NO **MW** 303.54 **PS L**
SG 0.93 g/cm³ **BP** 393 °C **FP** 116 °C
SOL A,T,EA,M,CN

Matrix	Cat. No.	Unit
NEAT	P-705N	10 mg
100 µg/mL in MeOH	P-705S	1 mL

Fenpyroximate

tert-Butyl(E)-alpha-(1,3-dimethyl-5-phenoxy-pyrazol-4-ylmethyleneamino-oxy)-p-toluate

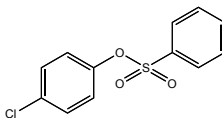


CAS 111812-58-9 **MF** C₂₄H₂₇N₃O₄ **MW** 421.49
PS S **SG** 1.14 g/cm³ **MP** 102 °C **BP** 546 °C
FP 284 °C **SOL** M,A,CN,EA,H,T

Matrix	Cat. No.	Unit
NEAT	P-724N	10 mg
100 µg/mL in MeOH	P-724S	1 mL

Fenson

4-Chlorophenyl benzenesulfonate

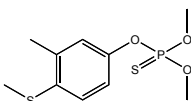


CAS 80-38-6 **MF** C₁₂H₉ClO₃S **MW** 268.72 **PS S**
SG 1.38 g/cm³ **MP** 136-137 °C **BP** 407 °C
FP 200 °C **SOL** A,CN

Matrix	Cat. No.	Unit
NEAT	P-551N	10 mg
100 µg/mL in MeOH	P-551S	1 mL

Fensulfothion, see Dasanit
Fenthion

O,O-Dimethyl O-4-methylthio-m-tolyl
phosphorothioate



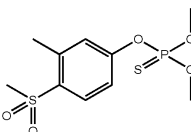
Baytex, Entex, Mercaptophos

CAS 55-38-9 **MF** C₁₀H₁₅O₃PS₂ **MW** 278.33 **PS L**
SG 1.25 g/cm³ **MP** 7.5 °C **BP** 87 °C **FP** >100 °C
SOL M,A,D,H,T,CN,TP,EA,IPA

Matrix	Cat. No.	Unit
NEAT	P-148N	10 mg
100 µg/mL in MeOH	P-148S	1 mL
1000 µg/mL in MeOH	P-148S-10X	1 mL
1000 µg/mL in Hexane	P-148S-H-10X	1 mL

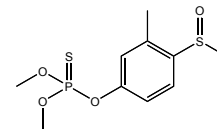
Fenthion-sulfone

Phosphorothioic acid, O,O-dimethyl O-(4-(methylsulfonyl)-m-tolyl) ester



CAS 3761-42-0 **MF** C₁₀H₁₅O₅PS₂ **MW** 310.33 **PS S**
SG 1.35 g/cm³ **MP** 75-78 °C **FP** >150 °C
SOL M,T,TP,CN

Matrix	Cat. No.	Unit
100 µg/mL in AcCN	P-953S-CN	1 mL

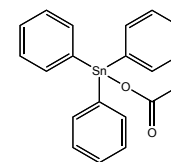
Fenthion sulfoxide


CAS 3761-41-9 **MF** C₁₀H₁₅O₄PS₂ **MW** 294.33
PS S **SG** 1.32 g/cm³ **MP** 69-71 °C **BP** 397-398 °C
FP 194 °C **SOL** M,D,T,CN,TP

Matrix	Cat. No.	Unit
NEAT	P-1052N	10 mg
100 µg/mL in CH ₂ Cl ₂	P-1052S-D	1 mL

Fentin acetate

Acetoxytriphenylstannane



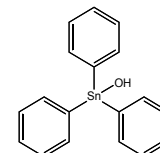
Batasan

CAS 900-95-8 **MF** C₂₀H₁₈O₂Sn **MW** 409.07 **PS S**
SOL D,EA,H,M,T **SG** 1.55 g/cm³

Matrix	Cat. No.	Unit
NEAT	P-680N	10 mg
100 µg/mL in MeOH	P-680S	1 mL

Fentin chloride, see Triphenyltin chloride
Fentin hydroxide

Triphenylstannylum hydroxide



CAS 76-87-9 **MF** C₁₈H₁₅OSn **MW** 367.03 **PS S**
SG 1.54 g/cm³ **MP** 123 °C **FP** 174 °C
SOL CN,A,IPA

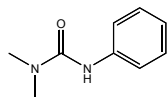
Matrix	Cat. No.	Unit
NEAT	P-1042N	10 mg
100 µg/mL in AcCN	P-1042S-CN	1 mL



Pesticide Standards

Fenuron

1,1-Dimethyl-3-phenylurea



Dybar

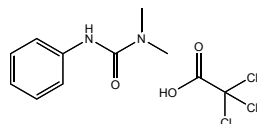
CAS 101-42-8 MF C₉H₁₂N₂O MW 164.2 PS S
SG 1.10 g/cm³ MP 133-134 °C SOL M,A,CN

Matrix	Cat. No.	Unit
NEAT	P-004N	10 mg
100 µg/mL in MeOH	P-004S	1 mL

Fenuron trichloroacetate, see Fenuron-TCA

Fenuron-TCA

1,1-Dimethyl-3-phenyluronium trichloroacetate



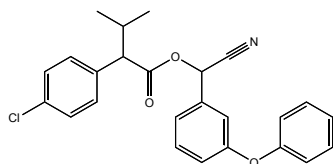
Fenuron trichloroacetate

CAS 4482-55-7 MF C₉H₁₂N₂O•C₂HCl₃O₂
MW 327.59 PS S MP 65-68 °C SOL M,CN

Matrix	Cat. No.	Unit
NEAT	P-006N	10 mg
100 µg/mL in MeOH	P-006S	1 mL

Fenvalerate

(RS)-alpha-Cyano-3-phenoxybenzyl (RS)-2-(4-chlorophenyl)-3-methylbutyrate



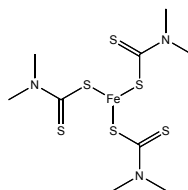
Belmark, Pydrin

CAS 51630-58-1 MF C₂₅H₂₂ClNO₃ MW 419.9 PS S
SG 1.18 g/cm³ MP 45 °C FP 256 °C
SOL M,A,D,H,T,CN,TP,EA

Matrix	Cat. No.	Unit
NEAT	P-194N	10 mg
100 µg/mL in MeOH	P-194S	1 mL

Ferbam

Iron (III) dimethyldithiocarbamate



CAS 14484-64-1 MF C₉H₁₈N₆S₆Fe MW 416.5
PS S SG 0.60 g/cm³ MP 180 °C SOL M

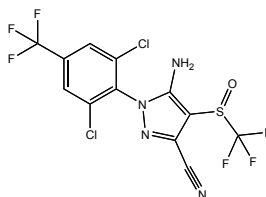
Matrix	Cat. No.	Unit
NEAT	P-110N	10 mg
100 µg/mL in MeOH	P-110S	1 mL

Ficam, see Bendiocarb

Fintryne, see Irgarol

Fipronil

(±)-5-Amino-1-(2,6-dichloro-alpha,alpha,alpha-trifluoro-p-tolyl)-4-trifluoromethylsulfonylpyrazole-3-carbonitrile

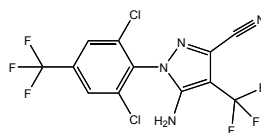


CAS 120068-37-3 MF C₁₂H₄Cl₂F₆N₄OS MW 437.16
PS S SG 1.87 g/cm³ MP 196-202 °C BP 510 °C
FP 262 °C SOL M,A,D,H,T,CN,TP,EA

Matrix	Cat. No.	Unit
NEAT	P-738N	10 mg
100 µg/mL in MeOH	P-738S	1 mL
100 µg/mL in Acetone	P-738S-A	1 mL

Fipronil desulfinyl

1H-Pyrazole-3-carbonitrile, 5-amino-1-[2,6-dichloro-4-(trifluoromethyl)phenyl]-4-(trifluoromethyl)-



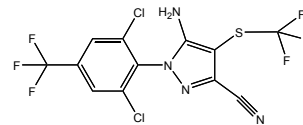
Desulfinyl fipronil

CAS 205650-65-3 MF C₁₂H₄Cl₂F₆N₄ MW 389.08
SOL A,D,CN

Matrix	Cat. No.	Unit
100 µg/mL in Acetone	P-782S-A	1 mL

Fipronil sulfide

5-Amino-1-(2,6-dichloro-4-trifluoromethylphenyl)-4-(trifluoromethyl)thiopyrazole-3-carbonitrile

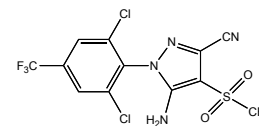


CAS 120067-83-6 MF C₁₂H₄Cl₂F₆N₄S MW 421.15
PS S SG 1.76 g/cm³ MP 184-185 °C BP 393 °C
FP 192 °C SOL A,D,CN

Matrix	Cat. No.	Unit
NEAT	P-781N-5MG	5 mg
100 µg/mL in Acetone	P-781S-A	1 mL

Fipronil sulfone

5-Amino-1-(2,6-dichloro-4-(trifluoromethyl)phenyl)-4-(trifluoromethyl)sulfonyl-1H-pyrazole-3-carbonitrile



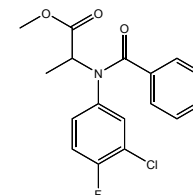
CAS 120068-36-2 MF C₁₂H₄Cl₂F₆N₄O₂S
MW 453.15 PS S SG 1.85 g/cm³ MP 207-208 °C
BP 532 °C FP 275 °C SOL A,D,CN

Matrix	Cat. No.	Unit
100 µg/mL in Acetone	P-780S-A	1 mL

Flamprop-isopropyl, see Barnon

Flamprop-methyl

Methyl N-benzoyl-N-(3-chloro-4-fluorophenyl)-DL-alaninate



Mataven

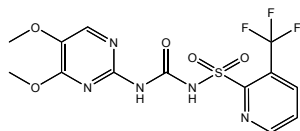
CAS 52756-25-9 MF C₁₇H₁₅ClFNO₃ MW 335.76
PS S SG 1.31 g/cm³ MP 85 °C BP 460 °C
FP 232 °C SOL M,CN

Matrix	Cat. No.	Unit
NEAT	P-366N	10 mg
100 µg/mL in MeOH	P-366S	1 mL



Flazasulfuron

1-(4,6-dimethoxypyrimidin-2-yl)-3-(3-trifluoromethyl-2-pyridylsulfonyl)



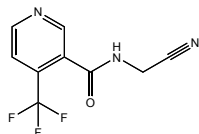
Flazasulfuron

CAS 104040-78-0 **MF** C₁₆H₁₂F₃N₅O₅S **MW** 407.3
PS S **SG** 1.55 g/cm³ **MP** 166-170 °C
SOL H,T,D,EA,M,A,CN

Matrix	Cat. No.	Unit
100 µg/mL in AcCN	P-826S-CN	1 mL

Flonicamid

N-(cyanomethyl)-4-(trifluoromethyl)-3-pyridinecarboxamide

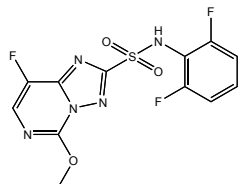


CAS 158062-67-0 **MF** C₉H₆F₃N₃O **MW** 229.16 **PS S**
SG 1.54 g/cm³ **MP** 157-158 °C **BP** Decomp. ~313 °C
FP >200 °C **SOL** A,EA,D,T,M,CN,W

Matrix	Cat. No.	Unit
NEAT	P-926N	10 mg
100 µg/mL in MeOH	P-926S	1 mL

Florasulam

2',6',8'-Trifluoro-5-methoxy[1,2,4]triazolo [1,5-c]pyrimidine-2-sulfonanilide

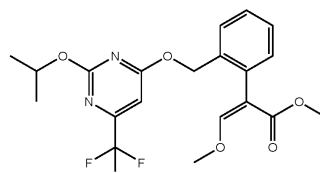


CAS 145701-23-1 **MF** C₁₂H₆F₃N₅O₃S **MW** 359.29
PS S **SG** 1.76 g/cm³ **MP** ~195 °C **SOL** M,A,CN,EA, D

Matrix	Cat. No.	Unit
10 µg/mL in AcCN	P-827S-CN-0.1X	1 mL

Fluacrypyrim

methyl (E)-2-[a-[2-isopropoxy-6-(trifluoromethyl)pyrimidin-4-yloxy]-o-tolyl]-3-methoxyacrylate

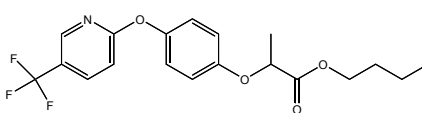


CAS 229977-93-9 **MF** C₂₀H₂₁F₃N₂O₅ **MW** 426.39
PS S **SG** 1.26 g/cm³ **MP** 108 °C **BP** 530 °C
FP 274 °C **SOL** A,M,CN,D,EA,H

Matrix	Cat. No.	Unit
100 µg/mL in MeOH	P-1056S	1 mL

Fluazifop-butyl

Butyl 2-(4-((5-(trifluoromethyl)-2-pyridinyl)oxy)phenoxy)propionate



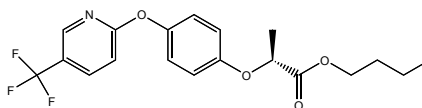
Fusilade

CAS 69806-50-4 **MF** C₁₉H₂₀F₃NO₄ **MW** 383.36 **PS L**
SG 1.21 g/cm³ **MP** 13 °C **BP** 165 °C **SOL** M,A,CN

Matrix	Cat. No.	Unit
NEAT	P-310N	10 mg
100 µg/mL in MeOH	P-310S	1 mL

Fluazifop-p-butyl

Propanoic acid, 2-(4-((5-(trifluoromethyl)-2-pyridinyl)oxy)phenoxy)-, butyl ester, (R)-

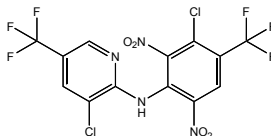


CAS 79241-46-6 **MF** C₁₉H₂₀F₃NO₄ **MW** 383.36
PS L **SG** 1.22 g/cm³ **MP** 5 °C **BP** 164 °C
FP 218 °C **SOL** A,M,T,CN

Matrix	Cat. No.	Unit
NEAT	P-601N	10 mg
100 µg/mL in MeOH	P-601S	1 mL

Fluazinam

3-Chloro-N-(3-chloro-5-trifluoromethyl-2-pyridyl)-a,a,a-trifluoro-2,6-dinitro-p-toluidine

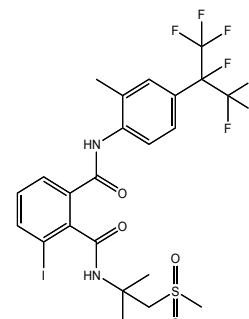


CAS 79622-59-6 **MF** C₁₃H₄Cl₂F₆N₄O₄ **MW** 465.09
PS S **SG** 1.81 g/cm³ **MP** 119 °C
SOL H,M,T,A,CN,D,EA

Matrix	Cat. No.	Unit
NEAT	P-586N	10 mg
100 µg/mL in MeOH	P-586S	1 mL

Flubendiamide

3-iodo-N'-(2-mesy-1,1-dimethylethyl)-N-[4-[1,2,2,2-tetrafluoro-1-(trifluoromethyl)ethyl]o-tolyl]phthalamide



Flubendiamide

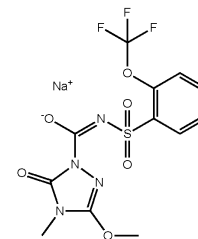
CAS 272451-65-7 **MF** C₂₃H₂₂F₇IN₂O₅S **MW** 682.39
PS S **SG** 1.66 g/cm³ **MP** 217-218 °C
BP 578-579 °C **FP** 304 °C **SOL** A,CN,M,EA

Matrix	Cat. No.	Unit
NEAT	P-1025N	10 mg
100 µg/mL in AcCN	P-1025S-CN	1 mL

Flubendiamide, see Flubendiamide

Flucarbazone-sodium

Sodium [(3-methoxy-4-methyl-5-oxo-4,5-dihydro-1H-1,2,4-triazol-1-yl)carbonyl]([2-(trifluoromethoxy)phenyl]sulfonyl)azanide



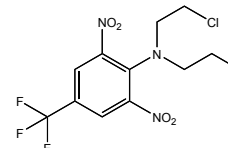
Flubendiamide

CAS 181274-17-9 **MF** C₁₂H₁₀F₃N₄NaO₆S
MW 418.28 **PS S** **SOL** W

Matrix	Cat. No.	Unit
NEAT	P-1124N	10 mg
100 µg/mL in AcCN	P-1124S-CN	1 mL

Fluchloralin

N-(2-Chloroethyl)-2,6-dinitro-N-propyl-4-(trifluoromethyl)aniline



CAS 33245-39-5 **MF** C₁₂H₁₃ClF₃N₂O₄ **MW** 355.7
PS S **SG** 1.45 g/cm³ **MP** 42-46 °C **BP** 392 °C
FP 191 °C **SOL** M,A,D,H,T,CN,EA

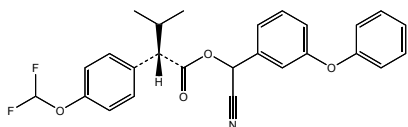
Matrix	Cat. No.	Unit
NEAT	P-270N	10 mg
100 µg/mL in MeOH	P-270S	1 mL



Pesticide Standards

Flucythrinate

Benzeneacetic acid,4-(difluoromethoxy)-a-(1-methylethyl)-, cyano(3-phenoxyphenyl)methyl ester

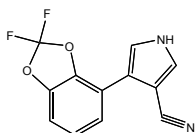


CAS 70124-77-5 **MF** C₁₈H₂₃F₂NO₄ **MW** 451.46
PS **L** **SG** 1.19 g/cm³ **BP** 108 °C **FP** 45 °C
SOL M,A,CN,EA,D

Matrix	Cat. No.	Unit
100 µg/mL in MeOH	P-378S	1 mL

Fludioxonil

4-(2,2-difluoro-1,3-benzodioxol-4-yl)pyrrole-3-carbonitrile

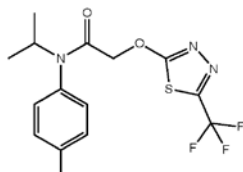


CAS 131341-86-1 **MF** C₁₂H₇F₂N₂O₂ **MW** 248.19
PS **S** **SG** 1.55 g/cm³ **MP** 108 °C **BP** 420 °C
FP 208 °C **SOL** M,A,D,T,CN,EA

Matrix	Cat. No.	Unit
NEAT	P-698N	10 mg
100 µg/mL in MeOH	P-698S	1 mL

Flufenacet

N-(4-fluorophenyl)-N-(1-methylethyl)-2-[[5-(trifluoromethyl)-1,3,4-thiadiazol-2-yl]oxy]acetamide

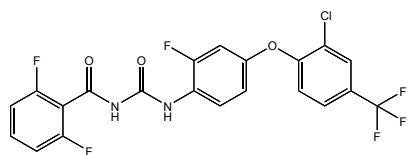


CAS 142459-58-3 **MF** C₁₄H₁₃F₄N₃O₂S **MW** 363.33
PS **S** **SG** 1.45 g/cm³ **MP** 78 °C
BP Decomp. ~150 °C **SOL** A T,H,CN,IPA,D

Matrix	Cat. No.	Unit
100 µg/mL in AcCN	P-902S-CN	1 mL

Flufenoxuron

N-[[[4-[2-chloro-4-(trifluoromethyl)phenoxy]-2-fluorophenyl]amino]carbonyl]-2,6-difluorobenzamide

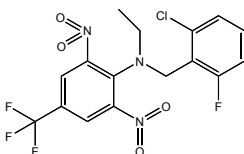


CAS 101463-69-8 **MF** C₂₁H₁₁ClF₆N₂O₃ **MW** 488.77
PS **S** **SG** 1.57 g/cm³ **MP** 169-172 °C
SOL A,T,D,M,CN

Matrix	Cat. No.	Unit
NEAT	P-687N	10 mg
100 µg/mL in MeOH	P-687S	1 mL

Flumetralin

2-Chloro-N-(2,6-dinitro-4-(trifluoromethyl)phenyl)-N-ethyl-6-fluorobenzenemethanamine

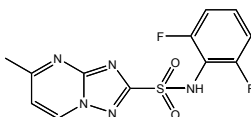


CAS 62924-70-3 **MF** C₁₆H₁₂ClF₂N₂O₄ **MW** 421.73
PS **S** **SG** 1.54 g/cm³ **MP** 102 °C **FP** >100 °C
SOL M,A,D,H,CN,EA,T

Matrix	Cat. No.	Unit
NEAT	P-491N	10 mg
100 µg/mL in MeOH	P-491S	1 mL

Flumetsulam

N-(2,6-difluorophenyl)-5-methyl[1,2,4]triazolo[1,5-a]pyrimidine-2-sulfonamide

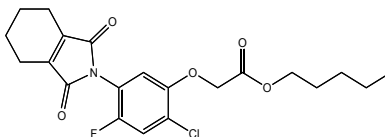


CAS 98967-40-9 **MF** C₁₂H₉F₂N₅O₂S **MW** 325.32
PS **S** **SG** 1.66 g/cm³ **MP** 251-253 °C **SOL** M,CN,A

Matrix	Cat. No.	Unit
NEAT	P-659N	10 mg
100 µg/mL in MeOH	P-659S	1 mL

Flumiclorac-pentyl

Pentyl [2-chloro-5-(cyclohex-1-ene-1,2-dicarboximido)-4-fluorophenoxy]acetate

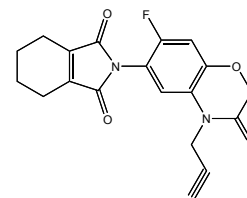


CAS 87546-18-7 **MF** C₂₁H₂₃ClFNO₅ **MW** 423.86
PS **S** **SG** 1.33 g/cm³ **MP** 89 °C **FP** 68 °C
SOL M,H,A,CN

Matrix	Cat. No.	Unit
NEAT	P-993N	10 mg
100 µg/mL in MeOH	P-993S	1 mL

Flumioxazin

7-Fluoro-6-(3,4,5,6-tetrahydrophthalimido)-4-(2-propynyl)-1,4-benzoxazin-3(2H)-one



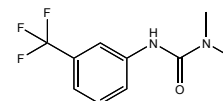
Flumyazin, Pledge, Vulcan

CAS 103361-09-7 **MF** C₁₉H₁₅FNO₄ **MW** 354.33
PS **S** **SG** 1.48 g/cm³ **MP** 203 °C **BP** 644 °C
FP 343 °C **SOL** A,EA,H,M,D,CN

Matrix	Cat. No.	Unit
100 µg/mL in Dichloromethane	P-992S-D	1 mL

Fluometuron

1,1-Dimethyl-3-(alpha,alpha,alpha-trifluoro-m-tolyl)urea



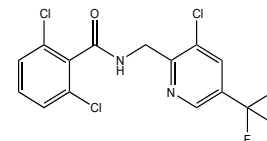
Cotoran, Cottonex

CAS 2164-17-2 **MF** C₁₀H₁₁F₃N₂O **MW** 232.2 **PS** **S**
SG 1.39 g/cm³ **MP** 163 °C **SOL** M,A,CN,D,W

Matrix	Cat. No.	Unit
NEAT	P-014N	10 mg
100 µg/mL in MeOH	P-014S	1 mL

Fluopicolide

2,6-dichloro-N-[3-chloro-5-(trifluoromethyl)-2-pyridylmethyl]benzamide



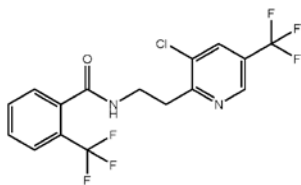
CAS 239110-15-7 **MF** C₁₄H₈Cl₃F₃N₂O **MW** 383.58
PS **S** **SG** 1.65 g/cm³ **MP** 150 °C **BP** Decomp. ~320 °C
FP >300 °C **SOL** H,E,T,A,CN,EA,D

Matrix	Cat. No.	Unit
NEAT	P-1024N	10 mg
100 µg/mL in AcCN	P-1124S-CN	1 mL
100 µg/mL in Acetone	P-1024S-A	1 mL



Fluopyram

N-[2-[3-chloro-5-(trifluoromethyl)-2-pyridyl]ethyl]-a,a,a-trifluoro-ortho-toluamide

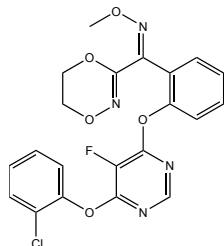


CAS 658066-35-4 MF C₁₆H₁₁ClF₅N₂O MW 396.71
PS S SG 1.17-1.18 °C BP 318 °C SOL M,A

Matrix	Cat. No.	Unit
100 µg/mL in MeOH	P-1094S	1 mL

Fluoxastrobin

(E)-{2-[6-(2-chlorophenoxy)-5-fluoropyrimidin-4-yloxy]phenyl}(5,6-dihydro-1,4,2-dioxazin-3-yl)methanone O-methylloxime



CAS 361377-29-9 MF C₂₁H₁₆ClFN₄O₅ MW 458.83
PS S SG 1.42 g/cm³ MP 105 °C
SOL EA,M,CN,A,IPA,D

Matrix	Cat. No.	Unit
100 µg/mL in AcCN	P-963S-CN	1 mL

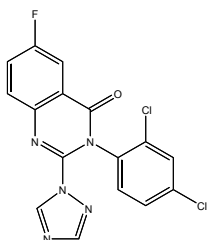
Flumyzin, see *Flumioxazin*

Flurochloridone, see *Flurochloridone*

Fluorodifen, see *Fluorodifen*

Fluquinconazole

3-(2,4-Dichlorophenyl)-6-fluoro-2-(1H-1,2,4-triazol-1-yl)quinazolin-4(3H)-one

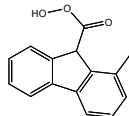


CAS 136426-54-5 MF C₁₆H₈Cl₂FN₅O MW 376.17
PS S SG 1.63 g/cm³ MP 192 °C BP 620 °C
FP 331 °C SOL M,A,H,CN,EA,D

Matrix	Cat. No.	Unit
NEAT	P-878N	10 mg
100 µg/mL in AcCN	P-878S-CN	1 mL

Flurenol methyl ester

Methyl 9-hydroxy-9H-fluorene-9-carboxylate

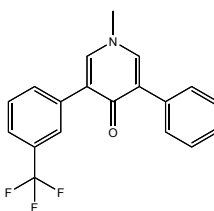


CAS 1216-44-0 MF C₁₅H₁₂O₃ MW 240.25 PS S
SG 1.32 g/cm³ MP 71 °C BP 336 °C FP 124 °C
SOL M

Matrix	Cat. No.	Unit
NEAT	P-412N	10 mg
100 µg/mL in MeOH	P-412S	1 mL

Fluridone

1-methyl-3-phenyl-5-[3-(trifluoromethyl)phenyl]-4(1H)-pyridinone



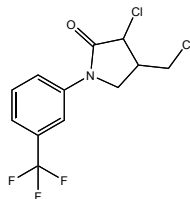
Sonar

CAS 59756-60-4 MF C₁₉H₁₄F₃NO MW 329.32
PS S SG 1.27 g/cm³ MP 154-155 °C BP 444 °C
FP 223 °C SOL M,A,H,CN,EA

Matrix	Cat. No.	Unit
NEAT	P-193N	10 mg
100 µg/mL in MeOH	P-193S	1 mL

Flurochloridone

3-Chloro-4-(chloromethyl)-1-[3-(trifluoromethyl)phenyl]-2-pyrrolidinone



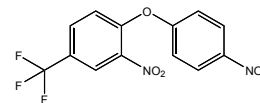
Flurochloridone

CAS 61213-25-0 MF C₁₂H₁₀Cl₂F₃NO MW 312.13
PS S SG 1.46 g/cm³ MP 55-73 °C BP 454 °C
FP 228 °C SOL A,EA,M,T,CN

Matrix	Cat. No.	Unit
NEAT	P-647N	10 mg
100 µg/mL in MeOH	P-647S	1 mL

Fluorodifen

2,4'-Dinitro-4-(trifluoromethyl)diphenyl ether



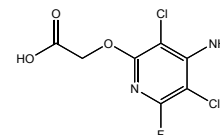
Fluorodifen

CAS 15457-05-3 MF C₁₃H₇F₃N₂O₅ MW 328.2
PS S SG 1.51 g/cm³ MP 94 °C BP 371 °C
FP 178 °C SOL A,H,M,T,CN

Matrix	Cat. No.	Unit
NEAT	P-676N	10 mg
100 µg/mL in MeOH	P-676S	1 mL

Fluroxypyr

((4-Amino-3,5-dichloro-6-fluoro-2-pyridinyl)oxy)acetic acid



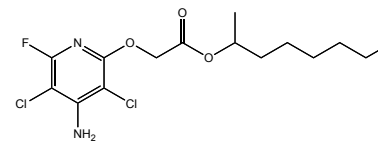
CAS 69377-81-7 MF C₇H₅Cl₂FN₂O₃ MW 255.03
PS S SG 1.72 g/cm³ MP 232 °C BP 399 °C
FP 195 °C SOL H,A,M,D,CN,EA,IPA,W

Matrix	Cat. No.	Unit
NEAT	P-521N	1 mL
100 µg/mL in MeOH	P-521S	1 mL

Fluroxypyr-methyl, see *Fluroxypyr-1-methylheptyl ester*

Fluroxypyr-1-methylheptyl ester

1-Methylheptyl [(4-amino-3,5-dichloro-6-fluoro-2-pyridinyl)oxy]acetate



Fluroxypyr-methyl

CAS 81406-37-3 MF C₁₅H₂₁Cl₂FN₂O₃ MW 367.24
PS S SG 1.32 g/cm³ MP 59 °C BP Decomp. -360 °C
FP >200 °C SOL M,A,EA,CN

Matrix	Cat. No.	Unit
NEAT	P-927N	10 mg
100 µg/mL in MeOH	P-927S	1 mL

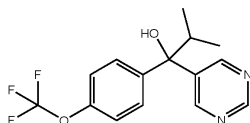
▲ Pesticides containing a carboxyl group may autoesterify in Methanol. These standards are intended for use after making the methyl derivative. For analysis of the parent compound we suggest a non-hydroxylic solvent such as Acetonitrile.



Pesticide Standards

Flurprimidol

(RS)-2-Methyl-1-pyrimidin-5-yl-1-(4-trifluoromethoxyphenyl)propan-1-ol

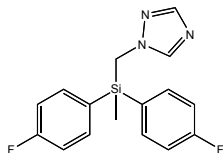


CAS 56425-91-3 **MF** C₉H₁₅F₃N₂O₂ **MW** 312.29
PS S SG 1.341 g/cm³ **MP** 93-97 °C **BP** 264 °C
SOL A,CN,T,EA,M,H,D

Matrix	Cat. No.	Unit
NEAT	P-1155N	10 mg

Flusilazole

1-((Bis(4-fluorophenyl)methylsilyl)methyl)-1H-1,2,4-triazole

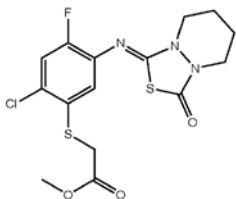


CAS 85509-19-9 **MF** C₁₆H₁₅F₂N₃Si **MW** 315.43
PS S SG 1.17 g/cm³ **MP** 51-53 °C **BP** 392 °C
FP 191 °C **SOL** M,A,H,CN,EA

Matrix	Cat. No.	Unit
NEAT	P-578N	10 mg
100 µg/mL in MeOH	P-578S	1 mL

Fluthiacet-methyl

Methyl[[2-chloro-4-fluoro-5-[(tetrahydro-3-oxo-1H,3H-[1,3,4]thiadiazolo[3,4-a]pyridazin-1-ylidene)amino]phenyl]thio]acetate

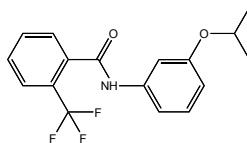


CAS 117337-19-6 **MF** C₁₅H₁₅ClF₂N₃O₃S₂ **MW** 403.88
PS S SG 0.43 g/cm³ **MP** 106 °C
BP Decomp. ~249 °C **SOL** CN

Matrix	Cat. No.	Unit
100 µg/mL in AcCN	P-1095S-CN	1 mL

Flutolanil

a,a,a,-Trifluoro-3'-isopropoxy-o-toluanilide



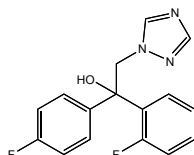
Moncut™

CAS 66332-96-5 **MF** C₁₆H₁₆F₃NO₂ **MW** 323.31
PS S SG 1.25 g/cm³ **MP** 104-105 °C **BP** 339 °C
FP 159 °C **SOL** A,EA,M,T,H,CN,D

Matrix	Cat. No.	Unit
NEAT	P-587N	10 mg
100 µg/mL in MeOH	P-587S	1 mL

Flutriafol

(RS)-2,4'-difluoro-a-(1H-1,2,4-triazol-1-ylmethyl)benzhydryl alcohol

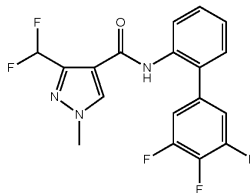


CAS 76674-21-0 **MF** C₁₆H₁₃F₂N₃O **MW** 301.29 **PS S**
SG 1.41 g/cm³ **MP** 130 °C **SOL** M,A,CN,H,D,W

Matrix	Cat. No.	Unit
NEAT	P-699N	10 mg
100 µg/mL in MeOH	P-699S	1 mL

Fluxapyroxad

3-(Difluoromethyl)-1-methyl-N-(3',4',5'-trifluoro-2-biphenyl)-1H-pyrazole-4-carboxamide



CAS 907204-31-3 **MF** C₁₈H₁₂F₅N₃O **MW** 381.30
PS S SG 1.45 g/cm³ **MP** 157 °C **FP** >200 °C
SOL A,EA,M,T,CN

Matrix	Cat. No.	Unit
100 µg/mL in AcCN	P-1150S-CN	1 mL

Focus, see *Cycloxydime*

Folbex, see *Chlorobenzilate*

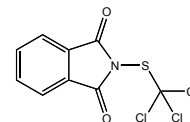
Follex, see *Merphos*

Folicur, see *Tebuconazole*

Folosan, see *Pentachloronitrobenzene*

Folpet

N-(Trichloromethylthio)phthalimide

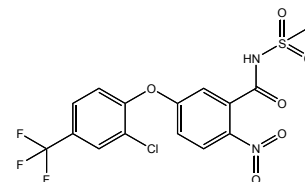


CAS 133-07-3 **MF** C₉H₄Cl₃NO₂S **MW** 296.56
PS S SG 1.72 g/cm³ **MP** 178 °C
SOL M,A,D,H,T,CN,TP,EA

Matrix	Cat. No.	Unit
NEAT	P-258N	10 mg
100 µg/mL in MeOH	P-258S	1 mL

Fomesafen

5-[2-Chloro-4-(trifluoromethyl)phenoxy]-N-(methylsulphonyl)-2-nitrobenzamide



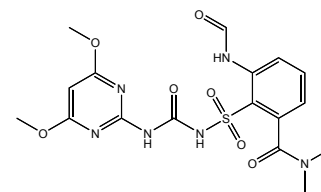
CAS 72178-02-0 **MF** C₁₆H₁₀ClF₃N₂O₆S **MW** 438.76
PS S SG 1.61 g/cm³ **MP** 219 °C **SOL** A,M,D,CN

Matrix	Cat. No.	Unit
NEAT	P-907N	10 mg
100 µg/mL in MeOH	P-907S	1 mL

Fonofos, see *Dyfonate*

Foramsulfuron

2-[3-(4,6-Dimethoxy-2-pyrimidinyl)ureidosulfonyl]-4-(formamido)-N,N-dimethylbenzamide

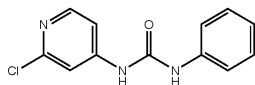


CAS 173159-57-4 **MF** C₁₇H₂₀N₆O₇S **MW** 452.44
PS S SG 1.47 g/cm³ **MP** 126-127 °C
SOL A,EA,M,CN

Matrix	Cat. No.	Unit
NEAT	P-852N	10 mg
100 µg/mL in AcCN	P-852S-CN	1 mL

**Forchlorfenuron**

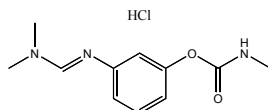
N-(2-Chloro-4-pyridyl)-N'-phenylurea

CAS 68157-60-8 MF C₁₂H₁₀ClN₃O MW 247.68
PS S SG 1.38 g/cm³ MP 167 °C SOL M,A,CN

Matrix	Cat. No.	Unit
NEAT	P-753N	10 mg
100 µg/mL in MeOH	P-753S	1 mL

Formetanate HCl

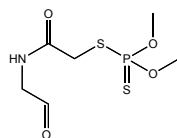
3-Dimethylaminomethyleneaminophenyl methylcarbamate hydrochloride

CAS 23422-53-9 MF C₁₁H₁₅N₃O₂·HCl MW 257.72
PS S SG 1.19 g/cm³ MP 190-202 °C
SOL H,M,D,T,A,CN,W

Matrix	Cat. No.	Unit
NEAT	P-431N	10 mg
100 µg/mL in MeOH	P-431S	1 mL

Formothion

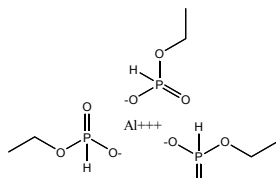
S-[2-(Formylmethylamino)-2-oxoethyl] O,O-dimethyl dithiophosphate

CAS 2540-82-1 MF C₇H₁₂NO₂PS₂ MW 257.27
PS L SG 1.36 g/cm³ MP 25 °C BP 318 °C
FP 146 °C SOL M,A,D,H,T,CN,TP

Matrix	Cat. No.	Unit
NEAT	P-149N	10 mg
100 µg/mL in AcCN	P-149S-CN	1 mL

Fosetyl aluminum

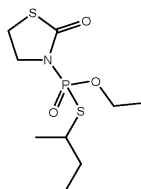
Aluminum tris(O-ethylphosphonate)

CAS 39148-24-8 MF C₆H₁₆AlO₉P₃ MW 354.13
PS S SOL A,M,W

Matrix	Cat. No.	Unit
NEAT	P-532N	10 mg
100 µg/mL in MeOH:Water (90:10)	P-532S	1 mL

Fosthiazate

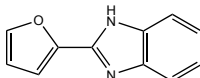
O-Ethyl S-(1-methylpropyl) (2-oxo-3-thiazolidinyl) phosphonothioate

CAS 98886-44-3 MF C₉H₁₆NO₃PS₂ MW 283.35
PS L SG 1.23 g/cm³ BP 198 °C FP >150 °C
SOL H,A,M,EA,CN,W

Matrix	Cat. No.	Unit
100 µg/mL in AcCN	P-828S-CN	1 mL

Fuberidazole

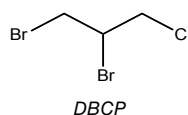
2-(2'-Furyl)benzimidazole

CAS 3878-19-1 MF C₁₁H₈N₂O MW 184.19 PS S
SG 1.25 g/cm³ MP Decomp. BP Decomp.
SOL T,A,EA,D,M,CN,IPA

Matrix	Cat. No.	Unit
100 µg/mL in AcCN	P-789S-CN	1 mL

Fumazone

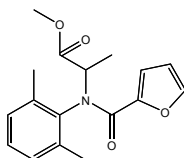
3-Chloro-1,2-Dibromopropane

CAS 96-12-8 MF C₃H₅Br₂Cl MW 236.33 PS L
SG 2.05 g/cm³ MP 6 °C BP 195 °C FP 90 °C
SOL M,A,D,H,T,CN,TP

Matrix	Cat. No.	Unit
NEAT	P-341N	10 mg
100 µg/mL in MeOH	P-341S	1 mL

*Fundazol, see Benomyf**Furadan, see Carbofuran***Furalaxyl**

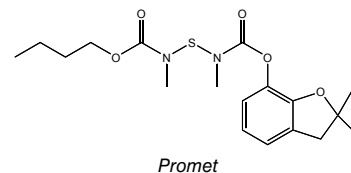
methyl N-(2-furoyl)-N-(2,6-xylyl)-DL-alaninate

CAS 57646-30-7 MF C₁₇H₁₈NO₄ MW 301.34 PS S
SG 1.18 g/cm³ MP 70 °C BP 420 °C FP 208 °C
SOL D,A,M,H,CN

Matrix	Cat. No.	Unit
NEAT	P-605N	10 mg
100 µg/mL in MeOH	P-605S	1 mL

Furathiocarb

2,3-Dihydro-2,2-dimethyl-7-benzofuryl 2,4-dimethyl-6-oxa-5-oxo-3-thia-2,4-diazadecanoate



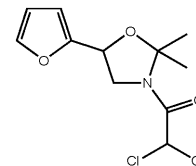
Promet

CAS 65907-30-4 MF C₁₈H₂₆N₂O₅ MW 382.48
PS S SG 1.15 g/cm³ MP 42.6-45.7 °C BP 160 °C
SOL M,A,T,H,CN,IPA

Matrix	Cat. No.	Unit
100 µg/mL in MeOH	P-569S	1 mL

Furilazole

2,2-Dichloro-1-[5-(2-furyl)-2,2-dimethyl-1,3-oxazolidin-3-yl]ethanone



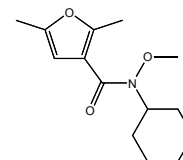
Oxazolidine

CAS 121776-33-8 MF C₁₁H₁₃Cl₂NO₃ MW 278.13
PS S SG 1.35 g/cm³ MP 96-982 °C FP >150 °C
SOL M,CN,EA,W

Matrix	Cat. No.	Unit
100 µg/mL in AcCN	P-810S-CN	1 mL

Furmecyclox

N-Cyclohexyl-N-methoxy-2,5-dimethyl-3-furancarboxamide

CAS 60568-05-0 MF C₁₄H₂₁NO₃ MW 251.32 PS S
SG 1.10 g/cm³ MP 33 °C BP 402 °C FP 197 °C
SOL M,A

Matrix	Cat. No.	Unit
100 µg/mL in MeOH	P-607S	1 mL

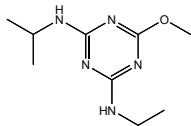
*Fusilade, see Fluazifop-butyl**Gardoprim, see Terbutylazine**Garlon, see Triclopyr**Garrathion, see Carbofenothion*



Pesticide Standards

Gesatamine

N-ethyl-6-methoxy-N?-(1-methylethyl)-
1,3,5-triazine-2,4-diamine



Atraton, Atrazine-methoxy

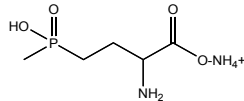
CAS 1610-17-9 **MF** C₈H₁₇N₃O **MW** 211.26 **PS** S
SG 1.16 g/cm³ **MP** 92-94 °C **BP** 352 °C **FP** 167 °C
SOL M,A,D,H,T,TP,EA

Matrix	Cat. No.	Unit
NEAT	P-189N	10 mg
100 µg/mL in MeOH	P-189S	1 mL

Gesatop, see Simazine

Glufosinate, ammonium salt

2-Amino-4-(hydroxymethylphosphinyl)
butanoic acid monoammonium salt



Liberty

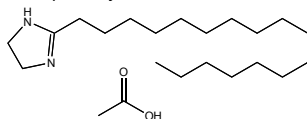
CAS 77182-82-2 **MF** C₅H₁₅N₂O₄P **MW** 195.16 **PS** S
SG 1.40 g/cm³ **MP** 210 °C **BP** 519 °C **FP** 268 °C
SOL A,EA,M,T,H,W

Matrix	Cat. No.	Unit
NEAT	P-475N	10 mg
100 µg/mL in MeOH	P-475S	1 mL

Glycophene, see Iprodione

Glyodin

2-Heptadecyl-2-imidazole acetate

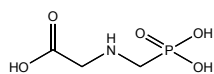


CAS 556-22-9 **MF** C₂₂H₄₄N₂O₂ **MW** 368.22
PS S **SG** 1.04 g/cm³ **MP** 62-68 °C **SOL** M

Matrix	Cat. No.	Unit
NEAT	P-528N	10 mg
100 µg/mL in MeOH	P-528S	1 mL

Glyphosate

N-(Phosphonomethyl)glycine



Roundup

CAS 1071-83-6 **MF** C₃H₈NO₃P **MW** 169.07 **PS** S
SG 1.68 g/cm³ **MP** 230 °C **BP** 466 °C **FP** 234 °C
SOL A,H,M,EA,CN,W

Matrix	Cat. No.	Unit
NEAT	P-015N	10 mg
100 µg/mL in H ₂ O	P-015S-W	1 mL
1000 µg/mL in H ₂ O	P-015S-W-10X	1 mL
5000 µg/mL in H ₂ O	P-015S-W-50X	1 mL

Gokilaht, see Cyphenothrin

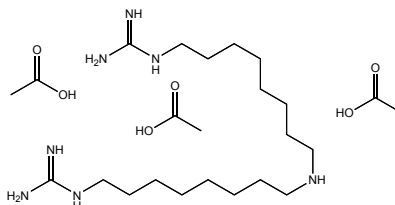
Gratil, see Amidosulfuron

GTA, see Guazatine acetate

Guardian, see Ethaboxam

Guazatine acetate

Mixture of acetates of guanidated di and triamines
and oligomeric amines



GTA

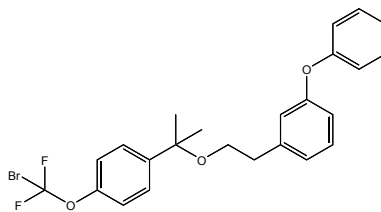
CAS 115044-19-4 **MF** C₂₄H₅₃N₇O₈ **MW** 535.72
PS S **SG** 1.09 g/cm³ **MP** 204 °C **BP** 558 °C
FP 292 °C **SOL** M,W

Matrix	Cat. No.	Unit
100 µg/mL in MeOH	P-612S	1 mL

Guthion, see Azinphos-methyl

Halfenprox

2-(4-bromodifluoromethoxyphenyl)-2-methylpropyl
3-phenoxybenzyl ether

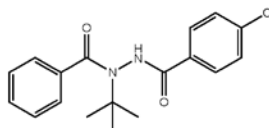


CAS 111872-58-3 **MF** C₂₄H₂₃BrF₂O₃ **MW** 477.34
PS L **SG** 1.32 g/cm³ **BP** Decomp. ~291 °C
FP 272 °C **SOL** M,A,CN,H,T,D,EA

Matrix	Cat. No.	Unit
10 µg/mL in MeOH	P-1050S-0.1X	1 mL

Halofenozide

2-Benzoyl-2-(1,1-dimethylethyl)hydrazide 4-chloro-
robenzoic acid

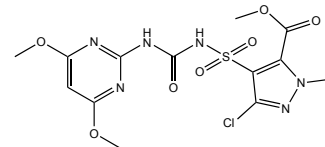


CAS 112226-61-6 **MF** C₁₈H₁₉ClN₂O₂ **MW** 330.81
PS S **SG** 0.46 g/cm³ **MP** 200 °C **SOL** D,CN,IPA

Matrix	Cat. No.	Unit
100 µg/mL in AcCN	P-804S-CN	1 mL

Halosulfuron methyl

Methyl(3-chloro-5-(4,6-dimethoxypyrimidin-2-ylcarbamo-
oylsulfamoyl)-1-methylpyrazole-4-carboxylate

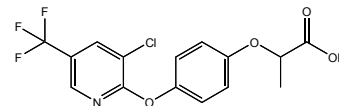


CAS 100784-20-1 **MF** C₁₅H₁₆ClN₆O₇S **MW** 434.81
PS S **SG** 1.62 g/cm³ **MP** 175-177 °C
BP Decomp. ~182 °C **SOL** M,A,CN,IPA,D,EA,T

Matrix	Cat. No.	Unit
100 µg/mL in AcCN	P-1089S-CN	1 mL

Haloxypop

2-[4-[[3-chloro-5-(trifluoromethyl)-2-pyridinyl]oxy]
phenoxy]propanoic acid

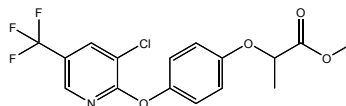


CAS 69806-34-4 **MF** C₁₅H₁₁ClF₃NO₄ **MW** 361.7
PS S **SG** 1.44 g/cm³ **MP** 107-108 °C **BP** 420 °C
FP 208 °C **SOL** A,EA,H,M,CN,IPA,D,T

Matrix	Cat. No.	Unit
NEAT	P-496N	10 mg
100 µg/mL in MeOH	P-496S	1 mL
100 µg/mL in AcCN	P-496S-CN	1 mL

Haloxypop-methyl

Methyl-2-[4-[[3-chloro-5-(trifluoromethyl)-
2-pyridinyl]oxy]phenoxy]propanoic acid



CAS 69806-40-2 **MF** C₁₅H₁₃ClF₃NO₄ **MW** 357.73
PS L **SG** 1.09 g/cm³ **MP** 176 °C
SOL M,A,CN,IPA,D,EA,T

Matrix	Cat. No.	Unit
NEAT	P-497N	10 mg
100 µg/mL in MeOH	P-497S	1 mL

Harmony, see Thifensulfuron methyl

Harvade, see Dimethipin

a-HCH, see a-BHC

b-HCH, see b-BHC

d-HCH, see d-BHC

g-HCH, see Lindane

HCH, tech, see BHC Tech

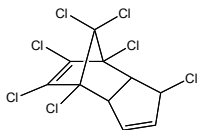
HEOD, see Dieldrin

▲ Pesticides containing a carboxyl group may autoesterify in Methanol. These standards are intended for use after making the methyl derivative. For analysis of the parent compound we suggest a non-hydroxylic solvent such as Acetonitrile.



Heptachlor

1,4,5,6,7,8,8-heptachloro-3a,4,7,7a-tetrahydro-4,7-methanoindene



CAS 76-44-8 **MF** C₁₀H₅Cl₇ **MW** 373.32
SG 1.66 g/cm³ **MP** 95 °C **BP** ~145 °C
SOL M,A,D,H,T,CN,TP,EA

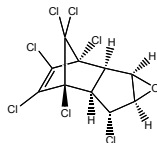
Matrix	Cat. No.	Unit
NEAT	P-053N	10 mg
100 µg/mL in MeOH	P-053S	1 mL
1000 µg/mL in MeOH	P-053S-10X	1 mL

Heptachlor endo-epoxide,
see *Heptachlor epoxide (Isomer A)*

trans-Heptachlor epoxide,
see *Heptachlor epoxide (Isomer A)*

Heptachlor epoxide (Isomer A)

1,4,5,6,7,8,8-Heptachloro-2,3-epoxy-3a,4,7,7a-tetrahydro-4,7-methanoindan



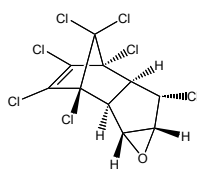
Heptachlor endo-epoxide, trans-Heptachlor epoxide

CAS 28044-83-9 **MF** C₁₀H₅Cl₇O **MW** 389.31 **PS** S
SG 1.91 g/cm³ **MP** 164 °C **BP** 426 °C
SOL M,A,D,H,T,CN,TP,EA

Matrix	Cat. No.	Unit
100 µg/mL in MeOH	P-294S	1 mL

Heptachlor epoxide (Isomer B)

2,5-Methano-2H-indeno[1,2-b]oxirene,2,3,4,5,6,7,7-heptachloro-1a,1b,5,5a,6,6a-hexahydro-, (1aR,1bS,2R,5S,5aR,6S,6aR)-rel-



Heptachlor exo-epoxide, cis-Heptachlor epoxide

CAS 1024-57-3 **MF** C₁₀H₅Cl₇O **MW** 389.31 **PS** S
SG 1.10 g/cm³ **MP** 157-161 °C
SOL M,A,D,H,T,CN,TP,EA

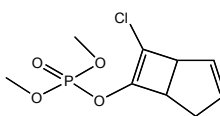
Matrix	Cat. No.	Unit
NEAT	P-054N	10 mg
100 µg/mL in MeOH	P-054S	1 mL
1000 µg/mL in MeOH	P-054S-10X	1 mL

cis-Heptachlor epoxide, see *Heptachlor epoxide (Isomer B)*

Heptachlor exo-epoxide, see *Heptachlor epoxide (Isomer B)*

Heptenophos

7-Chlorobicyclo[3.2.0]hepta-2,6-dien-6-yl dimethyl phosphate



Hostaquick

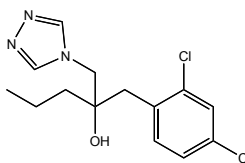
CAS 23560-59-0 **MF** C₉H₁₂ClO₄P **MW** 250.62 **PS** L
SG 1.28 g/cm³ **BP** 64 °C **SOL** M,A,T,CN,H,W

Matrix	Cat. No.	Unit
NEAT	P-547N	10 mg
100 µg/mL in MeOH	P-547S	1 mL

Hexabutyldistannoxane, see *bis(Tributyltin)oxide*

Hexaconazole

(RS)-2-(2,4-dichlorophenyl)-1-(1H-1,2,4-triazol-1-yl)hexan-2-ol



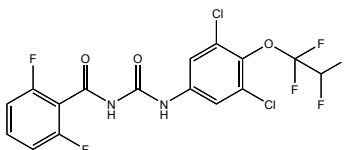
CAS 79983-71-4 **MF** C₁₄H₁₇Cl₂N₃O **MW** 314.21
PS S **SG** 1.29 g/cm³ **MP** 110-112 °C
SOL M,H,T,CN,EA,A,D

Matrix	Cat. No.	Unit
NEAT	P-500N	10 mg
100 µg/mL in MeOH	P-500S	1 mL

Hexadrin, see *Endrin*

Hexaflumuron

N-[[[3,5-dichloro-4-(1,1,2,2-tetrafluoroethoxy)phenyl]amino]carbonyl]-2,6-difluorobenzamide

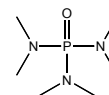


CAS 86479-06-3 **MF** C₁₆H₈Cl₂F₆N₂O₃ **MW** 461.14
PS S **SG** 1.61 g/cm³ **MP** 203-204 °C **BP** 540 °C
SOL M,CN,A,EA,IPA,D,T

Matrix	Cat. No.	Unit
NEAT	P-697N	10 mg
100 µg/mL in MeOH	P-697S	1 mL

Hexamethylphosphoramide

Tris(dimethylamino)phosphine oxide



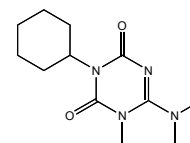
HMPA

CAS 680-31-9 **MF** C₆H₁₈N₄OP **MW** 179.2 **PS** L
SG 1.03 g/cm³ **MP** 7 °C **BP** 230-232 °C **FP** 144 °C
SOL M,D,H

Matrix	Cat. No.	Unit
NEAT	P-205N	10 mg
100 µg/mL in MeOH	P-205S	1 mL

Hexazinone

3-Cyclohexyl-6-dimethylamino-1-methyl-1,3,5-triazine-2,4(1H,3H)-dione

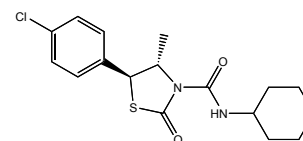


CAS 51235-04-2 **MF** C₁₂H₂₀N₄O₂ **MW** 252.31
PS S **SG** 1.25 g/cm³ **MP** 114 °C
SOL M,A,D,H,T,CN,TP,EA,W,H

Matrix	Cat. No.	Unit
NEAT	P-123N	10 mg
100 µg/mL in MeOH	P-123S	1 mL
1000 µg/mL in MeOH	P-123S-10X	1 mL

Hexythiazox

trans-5-(4-Chlorophenyl)-N-cyclohexyl-4-methyl-2-oxo-3-thiazolidinecarboxamide



Nissorun

CAS 78587-05-0 **MF** C₁₇H₂₁ClN₂O₂S **MW** 352.88
PS S **SG** 1.31 g/cm³ **MP** 108-109 °C **FP** 100 °C
SOL M,A,CN,H

Matrix	Cat. No.	Unit
NEAT	P-658N	10 mg
100 µg/mL in MeOH	P-658S	1 mL

Hinochloa, see *Mefenacet*

HMPA, see *Hexamethylphosphoramide*

Hoe-grass, see *Diclofop*

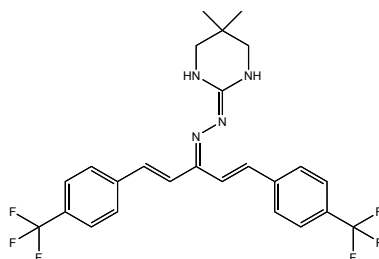
Hostaquick, see *Heptenophos*



Pesticide Standards

Hydramethylnon

Tetrahydro-5,5-dimethyl-2(1H)-pyrimidinone
[3-[4-(trifluoromethyl)phenyl]-1-[2-[4-(trifluoromethyl)phenyl]ethenyl]-2-propenylidene]hydrazzone



Amdro

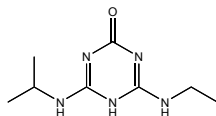
CAS 67485-29-4 MF C₂₅H₂₄F₆N₄ MW 494.48 PS S
SG 1.44 g/cm³ MP 185-190 °C FP >93 °C
SOL A,M,CN,IPA

Matrix	Cat. No.	Unit
NEAT	P-403N	10 mg
100 µg/mL in MeOH	P-403S	1 mL

Hydroxyatrazine, see 2-Hydroxyatrazine

2-Hydroxyatrazine

4-ethylamino-2-hydroxy-6-isopropylamino-s-triazine



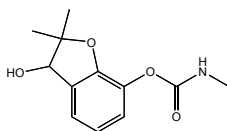
Hydroxyatrazine

CAS 2163-68-0 MF C₈H₁₅N₃O MW 197.24 PS S
SG 1.30 g/cm³ BP 274 °C FP 120 °C
SOL M

Matrix	Cat. No.	Unit
100 µg/mL in MeOH:A (98:2)	P-326S	1 mL
100 µg/mL in MC	P-326S-MC	1 mL

3-Hydroxycarbofuran

2,3-Dihydro-2,2-dimethyl-3,7-benzofurandiolo-7-methyl carbamate



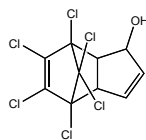
Carbofuran 3-hydroxy

CAS 16655-82-6 MF C₁₂H₁₅NO₄ MW 237.25 PS S
SG 1.24 g/cm³ MP 140-148 °C BP 345 °C
SOL M,A,CN

Matrix	Cat. No.	Unit
100 µg/mL in MeOH	P-186S	1 mL

1-Hydroxychloridene

(1a,3a,4b,7b,7a)-4,5,6,7,8,8-Hexachloro-3a,4,7,7a-tetrahydro-4,7-Methano-1H-inden-1-ol



1-exo-Hydroxychloridene

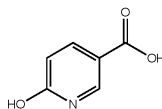
CAS 24009-05-0 MF C₁₀H₆Cl₆O MW 354.87 PS S
SG 1.28 g/cm³ BP 518 °C FP 267 °C SOL M

Matrix	Cat. No.	Unit
100 µg/mL in MeOH	P-151S	1 mL

1-exo-Hydroxychloridene, see 1-Hydroxychloridene

6-Hydroxypyridine-3-carboxylic acid

2-Hydroxy-5-pyridinecarboxylic acid, 6-Hydroxynicotinic acid

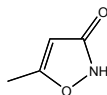


CAS 5006-66-6 MF C₆H₅NO₃ MW 139.11 PS S
SG 1.50 g/cm³ MP 314-316 °C BP >400 °C
FP >200 °C SOL M

Matrix	Cat. No.	Unit
NEAT	P-1226N	10 mg
100 µg/mL in MeOH	P-1226S	1 mL

Hymexazol

3-Hydroxy-5-methylisoxazole



3-Isoxazolol

CAS 10004-44-1 MF C₄H₇NO₂ MW 99.09 PS S
SG 1.18 g/cm³ MP 86-87 °C BP 228 °C FP 92 °C
SOL W,A,D,EA,H,M,T

Matrix	Cat. No.	Unit
100 µg/mL in MeOH	P-571S	1 mL

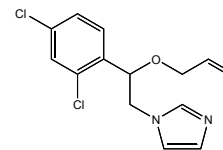
IBP, see Iprobenfos

Icon, see L-Cyhalothrin

Igran, see Prebanc

Imazalil

(±)-1-(beta-allyloxy-2,4-dichlorophenylethyl)imidazole



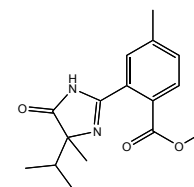
Chloramizol, Enilconazole

CAS 35554-44-0 MF C₁₄H₁₄Cl₂N₂O MW 297.18
PS S SG 1.35 g/cm³ MP 53 °C BP ~347 °C
FP 192 °C SOL M,A,D,H,T,CN,EA,IPA

Matrix	Cat. No.	Unit
NEAT	P-332N	10 mg
100 µg/mL in MeOH	P-332S	1 mL

Imazamethabenz methyl

m(or p)-Toluic acid, 2-(4,5-dihydro-4-methyl-4-isopropyl-5-oxo-1H-imidazol-2-yl)-, methyl ester

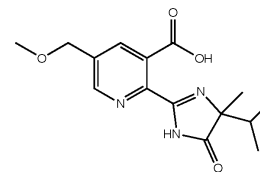


CAS 81405-85-8 MF C₁₆H₂₀N₂O₃ MW 288.34 PS S
SG 0.30 g/cm³ MP 113-122 °C BP 670 °C
FP 359 °C SOL M,A,D,H,W,IPA,T

Matrix	Cat. No.	Unit
NEAT	P-414N	10 mg
100 µg/mL in MeOH	P-414S	1 mL

Imazamox

2-(4-Isopropyl-4-methyl-5-oxo-4,5-dihydro-1H-imidazol-2-yl)-5-(methoxymethyl)nicotinic acid



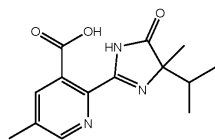
Raptor

CAS 114311-32-9 MF C₁₅H₁₉N₃O₄ MW 305.33
PS S SG 1.35 g/cm³ MP 166 °C
SOL H,M,T,EA,A,CN,W

Matrix	Cat. No.	Unit
NEAT	P-806N	10 mg
100 µg/mL in AcCN	P-806S-CN	1 mL

**Imazapic**

2-[(RS)-4-isopropyl-4-methyl-5-oxo-2-imidazolin-2-yl]-5-methylnicotinic acid

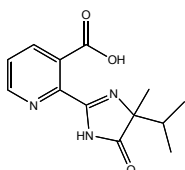


CAS 104098-48-8 **MF** C₁₄H₁₇N₃O₃ **MW** 275.30 **PS** S
SG 1.31 g/cm³ **MP** 205 °C **BP** >400 °C **FP** 216 °C
SOL M,A

Matrix	Cat. No.	Unit
NEAT	P-1063N	10 mg
100 µg/mL in MeOH	P-1063S ▲	1 mL

Imazapyr

2-(4-Isopropyl-4-methyl-5-oxo-2-imidazolin-2-yl)nicotinic acid

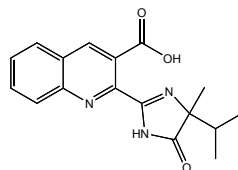


CAS 81334-34-1 **MF** C₁₃H₁₅N₃O₃ **MW** 261.28 **PS** S
SG 1.28 g/cm³ **MP** 169-173 °C **BP** 447 °C
FP 224 °C **SOL** M,A,T,H,CN,W,D

Matrix	Cat. No.	Unit
NEAT	P-589N	10 mg
100 µg/mL in MeOH	P-589S ▲	1 mL
100 µg/mL in AcCN	P-589S-CN	1 mL

Imazaquin

(RS)-2-(4-isopropyl-4-methyl-5-oxo-2-imidazolin-2-yl)quinolin-3-carboxylic acid



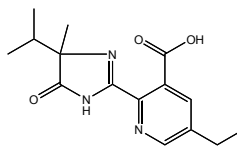
CAS 81335-37-7 **MF** C₁₇H₁₇N₃O₃ **MW** 311.34 **PS** S
SG 1.35 g/cm³ **MP** 219-222 °C **BP** 476 °C
FP 242 °C **SOL** T,E,A,EA,M,CN,D,DMSO

Matrix	Cat. No.	Unit
NEAT	P-283N	10 mg
100 µg/mL in MeOH	P-283S ▲	1 mL

Imzasulfuron, see Imazosulfuron

Imazethapyr

2-(4,5-dihydro-4-methyl-4-(1-methylethyl)-5-oxo-1H-imidazol-2-yl)-5-ethyl-3-pyridinecarboxylic acid

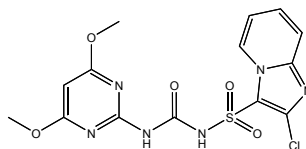


CAS 81335-77-5 **MF** C₁₅H₁₉N₃O₃ **MW** 289.33 **PS** S
SG 1.10 g/cm³ **MP** 170 °C
SOL M,A,D,CN,T,H,W,IPA

Matrix	Cat. No.	Unit
100 µg/mL in MeOH	P-285S ▲	1 mL

Imazosulfuron

2-chloro-N-(((4,6-dimethoxy-2-pyrimidinyl)amino)carbonyl)imidazo(1,2-a)pyridine-3-sulfonamide



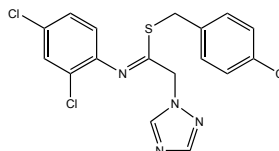
Imzasulfuron

CAS 122548-33-8 **MF** C₁₄H₁₃ClN₆O₅S **MW** 412.81
SOL EA,A,D,CN,M

Matrix	Cat. No.	Unit
10 µg/mL in AcCN	P-853S-CN-0.1X	1 mL

Imibenconazole

(4-chlorophenyl)methyl N-(2,4-dichlorophenyl)-1H-1,2,4-triazole-1-ethanimidothioate



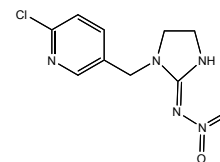
CAS 86598-92-7 **MF** C₁₇H₁₃Cl₃N₄S **MW** 411.74
PS S **SG** 1.42 g/cm³ **MP** 89-90 °C
BP 567-568 °C **FP** 297 °C **SOL** A,M,CN

Matrix	Cat. No.	Unit
50 µg/mL in AcCN	P-1019S-CN-0.5X	1 mL

▲ Pesticides containing a carboxyl group may autoesterify in Methanol. These standards are intended for use after making the methyl derivative. For analysis of the parent compound we suggest a non-hydroxylic solvent such as Acetonitrile.

Imidacloprid

1-(6-Chloro-3-pyridinylmethyl)-N-nitro-2-imidazolidinimine



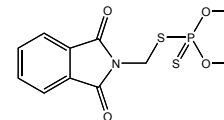
Marathon, Merit

CAS 138261-41-3 **MF** C₉H₁₀ClN₅O₂ **MW** 255.66
PS S **SG** 1.54 g/cm³ **MP** 144 °C
SOL M,A,D,CN,EA,T,H,W,IPA

Matrix	Cat. No.	Unit
NEAT	P-596N	10 mg
100 µg/mL in MeOH	P-596S	1 mL

Imidan

N-(Mercaptomethyl)phthalimide S-(O,O-dimethylphosphorodithioate)



Percolate, Phosmet

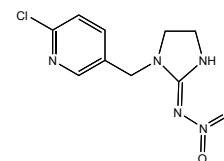
CAS 732-11-6 **MF** C₁₁H₁₂NO₄PS₂ **MW** 317.32 **PS** S
SG 1.04 g/cm³ **MP** 72-73 °C **BP** 227 °C
FP >100 °C **SOL** M,A,D,H,T,CN,TP,EA

Matrix	Cat. No.	Unit
NEAT	P-055N	10 mg
100 µg/mL in MeOH	P-055S	1 mL

2-Imidazolidinethione, see Ethylene thiourea

2-Imidazolidone

N,N'-Ethyleneurea



2-Oxoimidazolidine

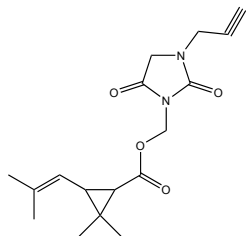
CAS 120-93-4 **MF** C₃H₆N₂O **MW** 86.09 **PS** S
SG 1.15 g/cm³ **MP** 129-132 °C **FP** 265 °C **SOL** M

Matrix	Cat. No.	Unit
NEAT	P-1224N	10 mg
100 µg/mL in MeOH	P-1224S	1 mL



Imiprothrin

[2,5-dioxo-3-(2-propynyl)-1-imidazolidinyl]methyl (1R)-2,2-dimethyl-3-(2-methyl-1-propenyl)cyclopropanecarboxylate

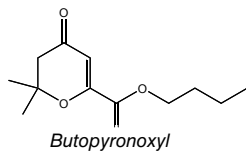


CAS 72963-72-5 **MF** C₁₇H₂₂N₂O₃ **MW** 318.37 **PS L**
SOL CN,H **SG** 1.12 g/cm³ **MP** 25 °C **FP** 141 °C

Matrix	Cat. No.	Unit
100 µg/mL in AcCN	P-983S-CN	1 mL

Indalone

2,2-Dimethyl-6-carbobotoxy-2,3-dihydro-4-pyrone

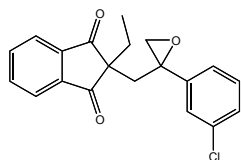


CAS 532-34-3 **MF** C₁₂H₁₆O₃ **MW** 226.27 **PS L**
SG 1.06 g/cm³ **BP** 256-270 °C **SOL** M

Matrix	Cat. No.	Unit
NEAT	P-648N	10 mg
100 µg/mL in MeOH	P-648S	1 mL

Indanofan

2-[[2-(3-Chlorophenyl)oxiranyl]methyl]-2-ethyl-1H-indene-1,3(2H)-dione



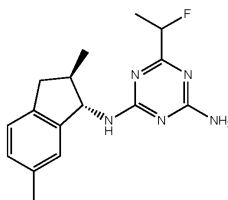
CAS 133220-30-1 **MF** C₂₀H₁₇ClO₃ **MW** 340.80
PS S **SG** 1.24 g/cm³ **MP** 60-61 °C
SOL H,M,A,EA,CN,T,D

Matrix	Cat. No.	Unit
NEAT	P-988N	10 mg
100 µg/mL in MeOH	P-988S	1 mL

Indar, see Fenbuconazole

Indaziflam

N-[(1R,2S)-2,6-Dimethyl-2,3-dihydro-1H-inden-1-yl]-6-(1-fluoroethyl)-1,3,5-triazine-2,4-diamine

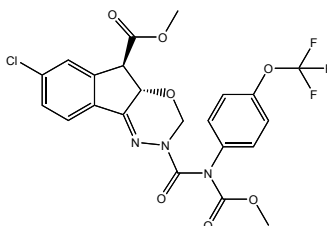


CAS 950782-86-2 **MF** C₁₆H₁₉FN₅ **MW** 301.36
PS S **SG** 1.23 g/cm³ **SOL** A,CN **FP** >200 °C

Matrix	Cat. No.	Unit
100 µg/mL in AcCN	P-1168S-CN	1 mL

Indoxacarb

Methy-(S)-N-[7-chloro-2,3,4a,5-tetrahydro-4a-(methoxycarbonyl)indeno[1,2-e]-[1,3,4]oxadiazin-2-ylcarbonyl]-4'-(trifluoromethoxy)carbanilate

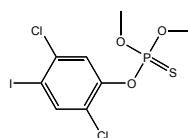


CAS 144171-61-9 **MF** C₂₂H₁₇ClF₃N₃O₃
MW 527.83 **PS S** **SG** 1.44 g/cm³ **MP** 88.1 °C
SOL M,A,T,CN,EA

Matrix	Cat. No.	Unit
NEAT	P-829N	10 mg
100 µg/mL in AcCN	P-829S-CN	1 mL

Iodofenphos

O-2,5-Dichloro-4-iodophenyl
O,O-dimethyl phosphorothioate



Jodfenphos

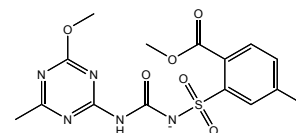
CAS 18181-70-9 **MF** C₈H₈Cl₂IO₃PS **MW** 413 **PS S**
SG 1.87 g/cm³ **MP** 75 °C **BP** 376 °C **FP** 181 °C
SOL M,A,D,H,T,CN

Matrix	Cat. No.	Unit
NEAT	P-379N	10 mg
100 µg/mL in MeOH	P-379S	1 mL

Iodosulfuron methyl ester sodium salt, see Iodosulfuron-methyl-sodium

Iodosulfuron-methyl-sodium

Methyl-4-iodo-2-[3-(4-methoxy-6-methyl-1,3,5-triazin-2-yl)-ureidosulfonyl]benzoate sodium salt



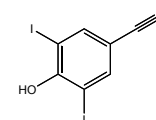
Iodosulfuron methyl ester sodium salt

CAS 144550-36-7 **MF** C₁₄H₁₄IN₃O₅SNa **MW** 529.27
PS S **SG** 1.76 g/cm³ **MP** 148-155 °C
SOL H,T,M,CN,IPA,EA

Matrix	Cat. No.	Unit
NEAT	P-830N	10 mg
100 µg/mL in AcCN	P-830S-CN	1 mL

Ioxynil

4-Hydroxy-3,5-di-iodobenzonitrile



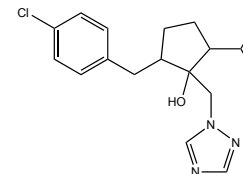
CAS 1689-83-4 **MF** C₇H₃I₂NO **MW** 370.91 **PS S**
SG 2.71 g/cm³ **MP** 212 -213 °C **BP** 283 °C
FP 125 °C **SOL** M,A,D,CN,EA

Matrix	Cat. No.	Unit
NEAT	P-522N	10 mg
100 µg/mL in MeOH	P-522S	1 mL

IPC, see Propham

Iponazole

2-[(4-chlorophenyl)methyl]-5-(1-methylethyl)-1-(1H-1,2,4-triazol-1-ylmethyl)cyclopentanol

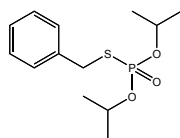


CAS 125225-28-7 **MF** C₁₈H₂₄ClN₃O **MW** 333.86
PS S **SG** 1.20 g/cm³ **MP** 86 °C **BP** 400 °C
SOL A,EA,M,CN,D,T

Matrix	Cat. No.	Unit
100 µg/mL in AcCN	P-958S-CN	1 mL

**Iprobenfos**

S-Benzyl O,O-di-isopropyl phosphorothioate



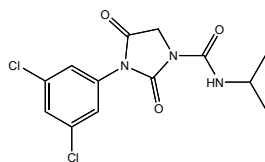
IBP, Kitazin

CAS 26087-47-8 **MF** C₁₃H₂₁O₃PS **MW** 288.37 **PS** L
SG 1.12 g/cm³ **BP** 354 °C **FP** 168 °C
SOL M,A,T,CN,D,EA,W

Matrix	Cat. No.	Unit
NEAT	P-609N	10 mg
100 µg/mL in MeOH	P-609S	1 mL

Iprodione

3-(3,5-Dichlorophenyl)-N-isopropyl-2,4-dioximidazolidine-1-carboxamide



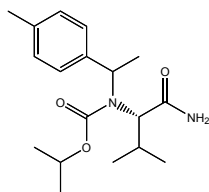
Glycophene

CAS 36734-19-7 **MF** C₁₃H₁₃Cl₂N₃O₃ **MW** 330.17
PS S **SG** 1.00 g/cm³ **MP** 130-134 °C
SOL M,A,D,H,T,CN,TP,EA

Matrix	Cat. No.	Unit
NEAT	P-016N	10 mg
100 µg/mL in AcCN	P-016S-CN	1 mL
100 µg/mL in Acetone	P-016S-A	1 mL

Iprovalicarb

Isopropyl-2-methyl-1-[(1-p-tolylethyl)carbamoyl]-(S)-propylcarbamate

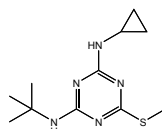


CAS 140923-17-7 **MF** C₁₈H₂₈N₂O₃ **MW** 320.43
PS S **SG** 1.04 g/cm³ **BP** 498 °C **FP** 255 °C
SOL T,A,EA,D,M,CN

Matrix	Cat. No.	Unit
NEAT	P-831N	10 mg
100 µg/mL in AcCN	P-831S-CN	1 mL

Irgarol

N-Cyclopropyl-N'-1,1-dimethylethyl-6-methylthio-1,3,5-triazine-2,4-diamine



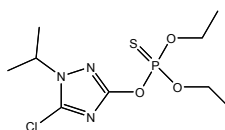
Cybutryne, Fintryne

CAS 28159-98-0 **MF** C₁₁H₁₉N₃S **MW** 253.37
PS S **SG** 1.20 g/cm³ **MP** 148-149 °C **BP** 428 °C
FP 213 °C **SOL** M,D

Matrix	Cat. No.	Unit
NEAT	P-746N	10 mg
100 µg/mL in MeOH	P-746S	1 mL

Isazofos, see Isazophos**Isazophos**

O-5-Chloro-1-isopropyl-1H-1,2,4-triazol-3-yl O,O-diethyl phosphorothioate



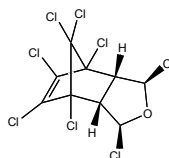
Isazofos

CAS 42509-80-8 **MF** C₈H₁₁ClN₃O₃PS **MW** 313.74
PS L **SG** 1.03 g/cm³ **BP** 100 °C
SOL M,A,D,H,T,CN,TP

Matrix	Cat. No.	Unit
NEAT	P-449N	10 mg
100 µg/mL in MeOH	P-449S	1 mL

Isobenzan

1,3,4,5,6,7,8,8-Octachloro-1,3,3a,4,7,7a-hexahydro-4,7-methanoisobenzofuran



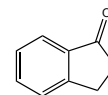
Telodrin

CAS 297-78-9 **MF** C₉H₄Cl₈O **MW** 411.75 **PS** S
SG 1.90 g/cm³ **MP** 121 °C **BP** 421 °C **FP** 156 °C
SOL M,A,D,H,T,CN,TP

Matrix	Cat. No.	Unit
100 µg/mL in MeOH	P-323S	1 mL

Isobenzofuranone

1(3H)-Isobenzofuranone



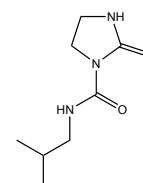
Phthalide

CAS 87-41-2 **MF** C₈H₆O₂ **MW** 134.13 **PS** S
SG 1.26 g/cm³ **MP** 72-74 °C **BP** 289-291 °C
FP 152 °C **SOL** M

Matrix	Cat. No.	Unit
NEAT	P-1022N	10 mg
100 µg/mL in MeOH	P-1022S	1 mL

Isocarbamid

N-(2-methylpropyl)-2-oxoimidazolidine-1-carboxamide

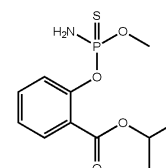


CAS 30979-48-7 **MF** C₈H₁₅N₃O₂ **MW** 185.22 **PS** S
MP 95-96 °C **SOL** A,CN

Matrix	Cat. No.	Unit
100 µg/mL in AcCN	P-880S-CN	1 mL

Isocarbafos, see Isocarbophos**Isocarbophos**

N-(2-methylpropyl)-2-oxoimidazolidine-1-carboxamide



Isocarbafos

CAS 24353-61-5 **MF** C₁₁H₁₆NO₄PS **MW** 289.29
PS S **SG** 1.35 g/cm³ **MP** 56-57 °C **BP** 385 °C
FP >150 °C **SOL** M,A,H,T,CN

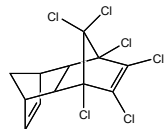
Matrix	Cat. No.	Unit
NEAT	P-893N	10 mg
100 µg/mL in AcCN	P-893S-CN	1 mL



Pesticide Standards

Isodrin

(1R,4S,5R,8S)-1,2,3,4,10,10-hexachloro-1,4,4a,5,8,8a-hexahydro-1,4:5,8-dimethanonaphthalene

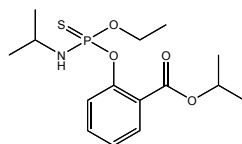


CAS 465-73-6 **MF** C₁₂H₈Cl₆ **MW** 364.91 **PS** S
SG 1.73 g/cm³ **MP** 239-241 °C **BP** 385 °C
FP 186 °C **SOL** M,A,D,H,T,EA

Matrix	Cat. No.	Unit
NEAT	P-471N	10 mg
100 µg/mL in MeOH	P-471S	1 mL
1000 µg/mL in MeOH	P-471S-10X	1 mL

Isofenphos

O-ethyl O-2-isopropoxycarbonylphenyl isopropylphosphoramidothioate

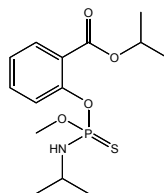


CAS 25311-71-1 **MF** C₁₅H₂₄NO₃PS **MW** 345.4
PS L **SG** 1.13 g/cm³ **MP** < 20 °C **BP** 120 °C
SOL M,A,D,H,EA,T,IPA

Matrix	Cat. No.	Unit
NEAT	P-018N	10 mg
100 µg/mL in MeOH	P-018S	1 mL

Isofenphos-methyl

1-methylethyl 2-[[methoxy[(1-methylethyl)amino]phosphorothioyl]oxy]benzoate

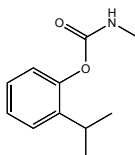


CAS 99675-03-3 **MF** C₁₄H₂₂NO₄PS **MW** 331.37
PS L **SOL** M,A,CN

Matrix	Cat. No.	Unit
100 µg/mL in MeOH	P-984S	1 mL

Isoprocarb

o-Cumenyl methylcarbamate



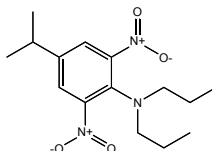
MIPC

CAS 2631-40-5 **MF** C₁₁H₁₆NO₂ **MW** 193.25 **PS** S
SG 1.04 g/cm³ **MP** 88-93 °C **BP** 265 °C **FP** 114 °C
SOL H,T,A,EA,M,CN,D

Matrix	Cat. No.	Unit
NEAT	P-317N	10 mg
100 µg/mL in MeOH	P-317S	1 mL

Isopropalin

4-Isopropyl-2,6-dinitro-N,N-dipropylaniline



CAS 33820-53-0 **MF** C₁₅H₂₃N₃O₄ **MW** 309.36 **PS** L
SG 1.16 g/cm³ **BP** 398 °C **FP** 195 °C
SOL M,A,D,CN,TP,EA

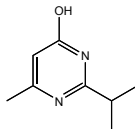
Matrix	Cat. No.	Unit
NEAT	P-100N	10 mg
100 µg/mL in MeOH	P-100S	1 mL

Isopropyl 3-chlorocarbanilate, see Chlorpropham

2-Isopropyl-4-methyl-6-pyrimidinol, see 2-Isopropyl-6-methyl-4-pyrimidinol

2-Isopropyl-6-methyl-4-pyrimidinol

2-Isopropyl-6-methyl-4(3H)-pyrimidinone



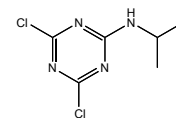
2-Isopropyl-4-methyl-6-pyrimidinol

CAS 2814-20-2 **MF** C₈H₁₂N₂O **MW** 152.19 **PS** S
SG 1.11 g/cm³ **MP** 172-175 °C **BP** 230 °C
FP 93 °C **SOL** M

Matrix	Cat. No.	Unit
NEAT	P-631N	10 mg
100 µg/mL in MeOH	P-631S	1 mL

2-Isopropylamino-4,6-dichloro-s-triazine

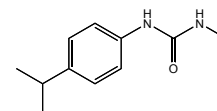
2-Isopropylamino-4,6-dichloro-s-triazine



CAS 3703-10-4 **MF** C₆H₈Cl₂N₄ **MW** 207.06 **PS** S
SOL M

Matrix	Cat. No.	Unit
NEAT	P-635N	10 mg
100 µg/mL in MeOH	P-635S	1 mL

1-(4-Isopropylphenyl)-3-methylurea



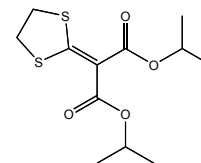
Desmethyl isoproturon

CAS 34123-57-4 **MF** C₁₁H₁₈N₂O **MW** 192.26
PS S **SG** 1.06 g/cm³ **MP** 105-106 °C
BP 272-273 °C **FP** 100 °C **SOL** M,CN

Matrix	Cat. No.	Unit
100 µg/mL in MeOH	P-1040S	1 mL

Isoprothiolane

di-Isopropyl 1,3-dithiolan-2-ylidenemalonate

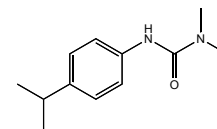


CAS 50512-35-1 **MF** C₁₂H₁₈O₄S₂ **MW** 290.4 **PS** S
SG 1.23 g/cm³ **MP** 54 °C **BP** 353 °C **FP** 159 °C
SOL M,A,H,CN

Matrix	Cat. No.	Unit
NEAT	P-661N	10 mg
100 µg/mL in MeOH	P-661S	1 mL

Isoproturon

3-(4-Isopropylphenyl)-1,1-dimethylurea



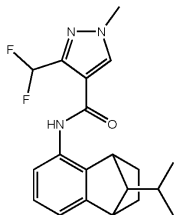
N,N-Dimethyl-N'-(4-(1-methylethyl)phenyl)urea

CAS 34123-59-6 **MF** C₁₂H₁₈N₂O **MW** 206.28
PS S **SG** 1.16 g/cm³ **MP** 158 °C **FP** 100 °C
SOL M,A,CN,D

Matrix	Cat. No.	Unit
NEAT	P-302N	10 mg
100 µg/mL in MeOH	P-302S	1 mL

**Isopyrazam**

3-(difluoromethyl)-1-methyl-N-(1,2,3,4-tetrahydro-9-(1-methylethyl)-1,4-methanonaphthalen-5-yl)-1H-pyrazole-4-carboxamide

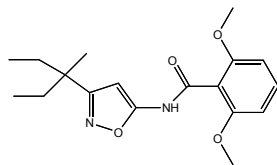


CAS 881685-58-1 **MF** C₂₀H₂₃F₂N₃O **MW** 359.41
PS S **SG** 1.33 g/cm³ **MP** 130-140 °C
BP 261-274 °C **SOL** A,D,H,T,CN,D

Matrix	Cat. No.	Unit
100 µg/mL in AcCN	P-1159S-CN	1 mL

Isoxaben

N-[3-(1-ethyl-1-methylpropyl)isoxazol-5-yl]-2,6-dimethoxybenzamide

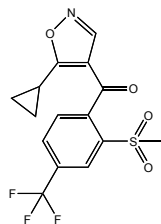


CAS 82558-50-7 **MF** C₁₈H₂₄N₂O₄ **MW** 332.39 **PS S**
SG 0.58 g/cm³ **MP** 176-179 °C
SOL M,A,CN,EA,T,D

Matrix	Cat. No.	Unit
NEAT	P-533N	10 mg
100 µg/mL in MeOH	P-533S	1 mL

Isoxaflutole

5-cyclopropyl-1,2-oxazol-4-yl a,a,a-trifluoro-2-mesyl-p-tolyl ketone

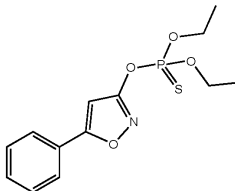


CAS 141112-29-0 **MF** C₁₈H₁₂F₃NO₄ **MW** 359.32
PS S **SG** 1.59 g/cm³ **MP** 140 °C **FP** >130 °C
SOL A,EA,T,M,CN,D

Matrix	Cat. No.	Unit
NEAT	P-832N	10 mg
100 µg/mL in AcCN	P-832S-CN	1 mL

Isoxathion

O,O-Diethyl O-(5-phenyl-1,2-oxazol-3-yl) phosphorothioate



CAS 18854-01-8 **MF** C₉H₁₆NO₄PS **MW** 313.31
PS L **SG** 1.23 g/cm³ **BP** 160 °C **SOL** M,CN

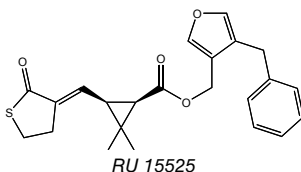
Matrix	Cat. No.	Unit
NEAT	P-1096N	10 mg
100 µg/mL in AcCN	P-1096S-CN	1 mL

3-Isoxazolol, see *Hymexazol*

Jodfenphos, see *Iodofenphos*

Kadethrine

5-Benzyl-3-furylmethyl (E)-(1R,3S)-2,2-dimethyl-3-(2-oxo-thiolan-3-ylidenemethyl)cyclopropanecarboxylate



RU 15525

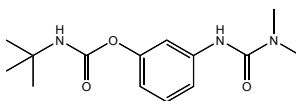
CAS 58769-20-3 **MF** C₂₃H₂₄O₄S **MW** 396.5 **PS L**
SG 1.28 g/cm³ **MP** 31 °C **BP** 526 °C **FP** 272 °C
SOL M,A,D

Matrix	Cat. No.	Unit
NEAT	P-367N	10 mg
100 µg/mL in MeOH	P-367S	1 mL

Karate, see *L-Cyhalothrin*

Karbutilate

3-(3,3-Dimethylureido)phenyl tert-butylcarbamate

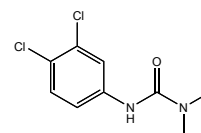


CAS 4849-32-5 **MF** C₁₄H₂₁N₃O₃ **MW** 279.33 **PS S**
SG 1.15 g/cm³ **MP** 176-176.5 °C **BP** 435 °C
FP 217 °C **SOL** M,CN,EA,A,IPA,DMSO

Matrix	Cat. No.	Unit
NEAT	P-337N	10 mg
100 µg/mL in MeOH	P-337S	1 mL

Karmex

3-(3,4-Dichlorophenyl)-1,1-dimethylurea



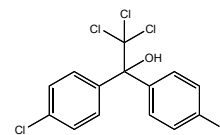
DCMU, Diuron

CAS 330-54-1 **MF** C₈H₁₀Cl₂N₂O **MW** 233.09 **PS S**
SG 1.37 g/cm³ **MP** 158-159 °C **BP** 180-190 °C
FP 187 °C **SOL** M,A,D,H,CN,TP,EA

Matrix	Cat. No.	Unit
NEAT	P-227N	10 mg
100 µg/mL in MeOH	P-227S	1 mL

Kelthane

2,2,2-Trichloro-1,1-bis(4-chlorophenyl)ethanol



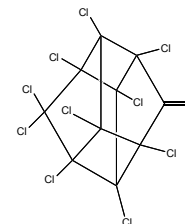
Dicofol, p,p'-Dicofol

CAS 115-32-2 **MF** C₁₄H₉Cl₅O **MW** 370.49 **PS S**
SG 1.45 g/cm³ **MP** 78 - 79 °C **BP** 193 °C
SOL M,A,D,H,T,CN,TP,EA,IPA

Matrix	Cat. No.	Unit
NEAT	P-057N	10 mg
100 µg/mL in MeOH	P-057S	1 mL

Kepone

Decachlorotetracyclodecanone



Chlordecone

CAS 143-50-0 **MF** C₁₀Cl₁₀O **MW** 490.63 **PS S**
MP 350 °C **SOL** M,A,D,H,T,CN,TP

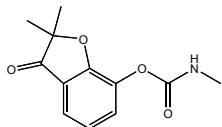
Matrix	Cat. No.	Unit
NEAT	P-152N	10 mg
100 µg/mL in MeOH	P-152S	1 mL
1000 µg/mL in MeOH	P-152S-10X	1 mL

Kerb, see *Pronamide*



3-Ketocarbofuran

2,2-Dimethyl-7-(methylcarbamoyloxy)-
2,3-dihydrobenzofuran-3-one



Carbofuran-3-keto

CAS 16709-30-1 **MF** C₁₂H₁₃NO₄ **MW** 235.24 **PS** S
SG 1.23 g/cm³ **MP** 175-185 °C **BP** 362 °C
FP 179 °C **SOL** M,A,CN

Matrix	Cat. No.	Unit
100 µg/mL in Acetone	P-298S-A	1 mL

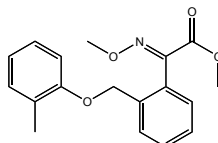
delta-Ketoendrin, see *Endrin ketone*

Kilval, see *Vamidothion*

Kitazin, see *Iprobenfos*

Kresoxim-methyl

Methyl-methoxyimino-alpha-
(o-tolyoxy)-o-tolylacetate



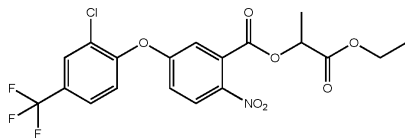
BAS 490 F

CAS 143390-89-0 **MF** C₁₆H₁₉NO₄ **MW** 313.35 **PS** S
SG 1.10 g/cm³ **MP** 99 °C **BP** 429 °C **FP** 171 °C
SOL M,A,H,T,CN,EA,D

Matrix	Cat. No.	Unit
NEAT	P-740N	10 mg
100 µg/mL in MeOH	P-740S	1 mL

Lactofen

1-Ethoxy-1-oxo-2-propanyl 5-[2-chloro-4-(trifluoro-
methyl)phenoxy]-2-nitrobenzoate



CAS 77501-63-4 **MF** C₁₉H₁₅ClF₃NO₇ **MW** 461.77
PS S **SG** 1.40 g/cm³ **MP** 43-45 °C **BP** >400 °C
FP >200 °C **SOL** M,CN

Matrix	Cat. No.	Unit
NEAT	P-979N	10 mg
100 µg/mL in AcCN	P-979S-CN	1 mL

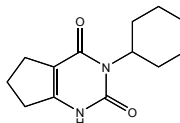
Lannate, see *Methomyl*

Lanray, see *Orbencarb*

Lasso, see *Alachlor*

Lenacil

3-Cyclohexyl-1,5,6,7-tetrahydrocyclopentapyrimi-
dine-2,4(3H)-dione



3-Cyclohexyl-5,6-trimethyleneturacil

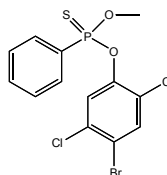
CAS 2164-08-1 **MF** C₁₃H₁₈N₂O₂ **MW** 234.29 **PS** S
SG 1.32 g/cm³ **MP** 316-326 °C **BP** 411 °C
FP 202 °C **SOL** A,T,H,EA,M,CN,D

Matrix	Cat. No.	Unit
NEAT	P-649N	10 mg
100 µg/mL in MeOH	P-649S	1 mL

Lentagran, see *Pyridate*

Leptophos

O-4-Bromo-2,5-dichlorophenyl
O-methyl phenylphosphonothioate



Phosvel

CAS 21609-90-5 **MF** C₁₃H₁₀BrCl₂O₂PS **MW** 412.07
PS S **SG** 1.53 **MP** 70 °C **SOL** M,A,D,H,T,CN,TD

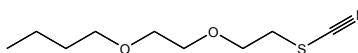
Matrix	Cat. No.	Unit
NEAT	P-206N	10 mg
100 µg/mL in MeOH	P-206S	1 mL
1000 µg/mL in Hexane	P-206S-H-10X	1 mL

Lesan, see *Fenaminosulf*

Lethane, see *Lethane 384*

Lethane 384

2-(2-Butoxyethoxy)ethyl thiocyanate



Lethane

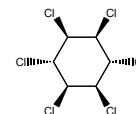
CAS 112-56-1 **MF** C₉H₁₈NO₃S **MW** 203.33 **PS** L
SG 0.915-0.930 **BP** 120-125 °C **FP** 125 °C
SOL M,H

Matrix	Cat. No.	Unit
NEAT	P-506N	10 mg
100 µg/mL in MeOH	P-506S	1 mL

Liberty, see *Glufosinate, ammonium salt*

Lindane

1,2,3,4,5,6-Hexachlorocyclohexane



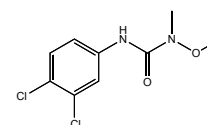
g-BHC, g-HCH

CAS 58-89-9 **MF** C₆H₆Cl₆ **MW** 290.83 **PS** S
SG 1.88 g/cm³ **MP** 113-115 °C
SOL M,A,D,H,T,CN,TP,EA

Matrix	Cat. No.	Unit
NEAT	P-059N	10 mg
100 µg/mL in MeOH	P-059S	1 mL
1000 µg/mL in MeOH	P-059S-10X	1 mL

Linuron

3-(3,4-Dichlorophenyl)-1-methoxy-1-methylurea



CAS 330-55-2 **MF** C₉H₁₀Cl₂N₂O₂ **MW** 249.11 **PS** S
SG 1.49 g/cm³ **MP** 93-94 °C
SOL M,A,D,H,CN,TP,EA,T

Matrix	Cat. No.	Unit
NEAT	P-022N	10 mg
100 µg/mL in MeOH	P-022S	1 mL

Lirinox, see *2,4-D butyl ester*

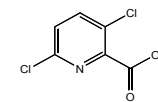
Lironion, see *Difenoxuron*

Lonacol, see *Zineb*

Londax, see *Bensulfuron-methyl*

Lontrel

3,6-Dichloropyridine-2-carboxylic acid



Clopyralid

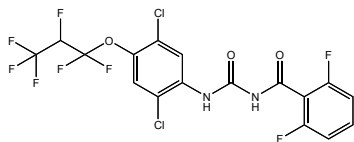
CAS 1702-17-6 **MF** C₆H₄Cl₂NO₂ **MW** 192 **PS** S
SG 1.61 g/cm³ **MP** 151-153 °C **BP** 324 °C
FP 150 °C **SOL** M,A,D,CN,EA,H,W

Matrix	Cat. No.	Unit
NEAT	P-224N	10 mg
100 µg/mL in MeOH	P-224S ▲	1 mL

▲ Pesticides containing a carboxyl group may autoesterify in Methanol. These standards are intended for use after making the methyl derivative. For analysis of the parent compound we suggest a non-hydroxylic solvent such as Acetonitrile.

**Lufenuron**

(RS)-1-[2,5-Dichloro-4-(1,1,2,3,3,3-hexafluoropropoxy)phenyl]-3-(2,6-difluorobenzoyl)urea



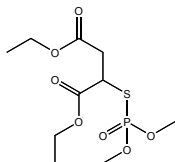
CAS 103055-07-8 **MF** C₁₇H₉Cl₂F₆N₂O₃ **MW** 511.15
SOL A,EA,H,T,M,CN,D

Matrix	Cat. No.	Unit
NEAT	P-704N	10 mg
100 µg/mL in MeOH	P-704S	1 mL

Machette, see Butachlor

Malaoxon

Diethyl 2-[(dimethoxyphosphoryl)sulfanyl]succinate



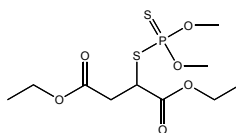
Malathion-O-analog

CAS 1634-78-2 **MF** C₁₀H₁₉O₇PS **MW** 314.1 **PS** L
SG 1.24 g/cm³ **MP** 114 °C **SOL** M,A,D,T,CN,TP,EA

Matrix	Cat. No.	Unit
NEAT	P-529N	10 mg
100 µg/mL in MeOH	P-529S	1 mL

Malathion

Diethyl[(dimethoxyphosphinothioyl)thio]butanedioate



Phosphothion

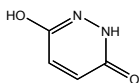
CAS 121-75-5 **MF** C₁₀H₁₉O₆PS₂ **MW** 330.36 **PS** L
SG 1.23 g/cm³ **MP** 2.8 °C **BP** ~140 °C **FP** 163 °C
SOL M,A,D,H,T,CN,TP,EA

Matrix	Cat. No.	Unit
NEAT	P-060N	10 mg
100 µg/mL in MeOH	P-060S	1 mL
1000 µg/mL in MeOH	P-060S-10X	1 mL
1000 µg/mL in Hexane	P-060S-H-10X	1 mL

Malathion-O-analog, see Malaoxon

Maleic hydrazide

3,6-Dihydropyridazine



1,2-Dihydro-3,6-pyridazinedione

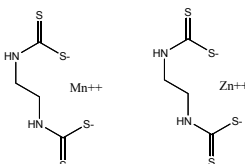
CAS 123-33-1 **MF** C₄H₄N₂O₂ **MW** 112.09 **PS** S
SG 1.61 g/cm³ **MP** 300 °C **FP** 150 °C
SOL M,T,H,EA,CN,W

Matrix	Cat. No.	Unit
NEAT	P-380N	10 mg
100 µg/mL in MeOH	P-380S	1 mL

Maloran, see Chlorbromuron

Mancozeb

Manganese zinc ethylenebis(dithiocarbamate)



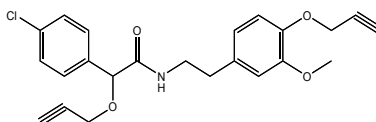
Manzeb

CAS 8018-01-7 **MF** C₄H₆MnN₂S₄/C₄H₆N₂S₄Zn
MW 265.31/275.76 **PS** S **SG** 1.99 g/cm³
MP 192-194 °C **BP** 308 °C **FP** 138 °C **SOL** CN

Matrix	Cat. No.	Unit
NEAT	P-322N	10 mg

Mandipropamid

2-(4-Chlorophenyl)-N-[2-[3-methoxy-4-(prop-2-ynyloxy)phenyl]ethyl]-2-(prop-2-ynyloxy)acetamide

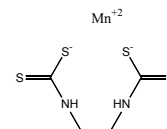


CAS 374726-62-2 **MF** C₂₃H₂₂ClNO₄ **MW** 411.88
PS S **SG** 1.21 g/cm³ **MP** 97 °C **BP** Decomp. ~200 °C
FP >200 °C **SOL** A,EA,T,D,CN,M

Matrix	Cat. No.	Unit
NEAT	P-1023N	10 mg
100 µg/mL in AcCN	P-1023S-CN	1 mL

Maneb

[1,2-ethanedilybis[carbamidithioato](2-)]manganese



MEB, Manganese ethylenebis(dithiocarbamate)

CAS 12427-38-2 **MF** C₄H₆MnN₂S₄ **MW** 265.31
PS S **SG** 1.92 g/cm³ **MP** ~192 °C **SOL** EA,A

Matrix	Cat. No.	Unit
NEAT	P-282N	10 mg

Manganese ethylenebis(dithiocarbamate), see Maneb

Manzeb, see Mancozeb

Marathon, see Imidacloprid

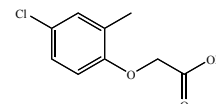
Mataven, see Flamprop-methyl

Mavrik, see Tau-Fluvalinate

MBC, see Carbendazim

MCPA acid

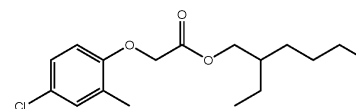
4-Chloro-o-tolyloxyacetic acid



Methoxone

CAS 94-74-6 **MF** C₉H₉ClO₃ **MW** 200.62 **PS** S
SG 1.41 g/cm³ **MP** 114 °C
SOL M,A,D,H,T,CN,TP,EA

Matrix	Cat. No.	Unit
NEAT	P-153N	10 mg
100 µg/mL in MeOH	P-153S	1 mL
100 µg/mL in AcCN	P-153S-CN	1 mL

MCPA 2-ethylhexyl ester

CAS 29450-45-1 **MF** C₁₇H₂₅ClO₃ **MW** 312.83 **PS** S
SG 1.06 g/cm³ **MP** 112-113 °C **BP** 387-388 °C
FP 131 °C **SOL** M,A

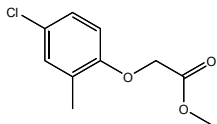
Matrix	Cat. No.	Unit
NEAT	P-1082N	10 mg
100 µg/mL in MeOH	P-1082S	1 mL



Pesticide Standards

MCPA methyl ester

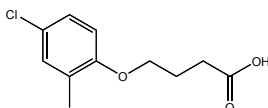
Methyl 4-chloro-2-methylphenoxyacetate

4-Chloro-*o*-tolylxyacetic acid, methyl esterCAS 2436-73-9 MF C₁₀H₁₁ClO₃ MW 214.65 PS L, S
SG 1.20 g/cm³ MP 39-40 °C BP 284 °C FP 115 °C
SOL M, A, D, H, T, TP

Matrix	Cat. No.	Unit
NEAT	P-038N	10 mg
100 µg/mL in MeOH	P-038S	1 mL

2,4-MCPB, see MCPB acid

MCPB acid

4-(4-Chloro-*o*-tolylxy)butyric acid

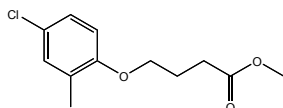
2,4-MCPB

CAS 94-81-5 MF C₁₁H₁₃ClO₃ MW 228.67 PS S
SG 1.23 g/cm³ MP 100 °C BP 393 °C FP 192 °C
SOL M, A, D, CN, EA, H, T

Matrix	Cat. No.	Unit
NEAT	P-370N	10 mg
100 µg/mL in MeOH	P-370S ▲	1 mL

MCPB methyl ester

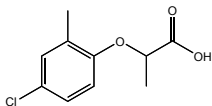
Methyl 4-(4-chloro-2-methylphenoxy)butyrate

CAS 57153-18-1 MF C₁₂H₁₅ClO₃ MW 242.7 PS L
SG 1.15 g/cm³ BP 340 °C FP 135 °C SOL M, D, H, TP

Matrix	Cat. No.	Unit
NEAT	P-371N	10 mg
100 µg/mL in MeOH	P-371S	1 mL

MCPP acid

2-(4-Chloro-2-methylphenoxy)propanoic acid



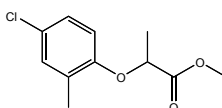
Mechlorprop, Mecoprop acid

CAS 7085-19-0 MF C₁₀H₁₁ClO₃ MW 214.65 PS S
SG 1.26 g/cm³ MP 93-94 °C BP 332 °C FP 100 °C
SOL M, A, D, H, T, CN, TP, EA, W

Matrix	Cat. No.	Unit
NEAT	P-154N	10 mg
100 µg/mL in MeOH	P-154S ▲	1 mL
100 µg/mL in AcCN	P-154S-CN	1 mL

MCPP methyl ester

Methyl 2-(4-chloro-2-methylphenoxy)propanoate



Mecoprop methyl ester

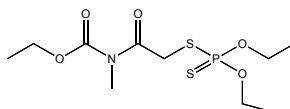
CAS 23844-56-6 MF C₁₁H₁₃ClO₃ MW 228.67 PS L
SG 1.21 g/cm³ BP 294 °C FP 115 °C
SOL M, A, D, H, T, TP

Matrix	Cat. No.	Unit
NEAT	P-040N	10 mg
100 µg/mL in MeOH	P-040S	1 mL

MEB, see Maneb

Mecarbam

S-(N-Ethoxycarbonyl-N-methylcarbamoylmethyl) O,O-diethyl phosphorodithioate

CAS 2595-54-2 MF C₁₀H₂₀NO₃PS₂ MW 329.38
PS L SG 1.26 g/cm³ BP 421 °C FP 209 °C
SOL M, A, CN, W

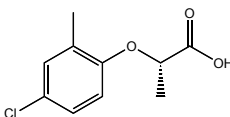
Matrix	Cat. No.	Unit
NEAT	P-318N	10 mg
100 µg/mL in MeOH	P-318S	1 mL

Mechlorprop, see MCPP Acid

Mecoprop acid, see MCPP acid

Mecoprop-P

(R)-(+)-2-(4-Chloro-2-methylphenoxy)propionic acid

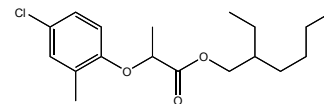
CAS 16484-77-8 MF C₁₀H₁₁ClO₃ MW 214.65 PS S
SG 1.31 g/cm³ MP 95-96 °C SOL A, EA, M, W, T, D, H

Matrix	Cat. No.	Unit
NEAT	P-1053N	10 mg
100 µg/mL in Acetone	P-1053S-A	1 mL

▲ Pesticides containing a carboxyl group may autoesterify in Methanol. These standards are intended for use after making the methyl derivative. For analysis of the parent compound we suggest a non-hydroxylic solvent such as Acetonitrile.

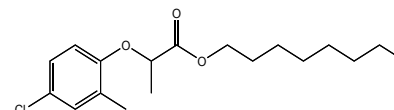
Mecoprop, 2-Ethylhexyl ester

2-(4-chloro-2-methylphenoxy)propanoic acid, ethylhexyl ester

CAS 71526-69-7 MF C₁₈H₂₇ClO₃ MW 326.86 PS S
SOL M, A

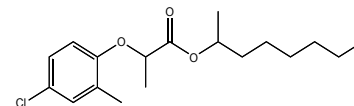
Matrix	Cat. No.	Unit
NEAT	P-502N	10 mg
100 µg/mL in MeOH	P-502S	1 mL

Mecoprop-1-octyl ester

CAS 161922-37-8 MF C₁₈H₂₇ClO₃ MW 326.86 PS L

Matrix	Cat. No.	Unit
100 µg/mL in AcCN	P-1028S-CN	1 mL

Mecoprop-2-octyl ester

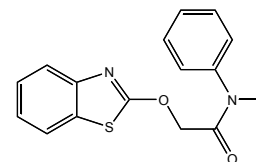
CAS 28473-03-2 MF C₁₈H₂₇ClO₃ MW 326.86 PS L
SG 1.05 g/cm³ BP 397-398 °C FP 130 °C
SOL A, CN

Matrix	Cat. No.	Unit
NEAT	P-1029N	10 mg
100 µg/mL in AcCN	P-1029S-CN	1 mL

Mecoprop methyl ester, see MCPP methyl ester

Mefenacet

2-(2-Benzothiazolyloxy)-N-methyl-N-phenylacetamide



Hinochloa

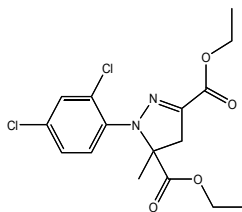
CAS 73250-68-7 MF C₁₆H₁₄N₂O₃ MW 298.38
PS S SG 1.32 g/cm³ MP 134-135 °C BP 441 °C
FP 220 °C SOL D, H, T, IPA, M, A, CN

Matrix	Cat. No.	Unit
NEAT	P-745N	10 mg
100 µg/mL in MeOH	P-745S	1 mL

Mefenoxam, see Metalaxyl-M

**Mefenpyr-diethyl**

1-(2,4-dichlorophenyl)-4,5-dihydro-5-methyl-1H-pyrazole-3,5-dicarboxylic acid



CAS 135590-91-9 **MF** C₁₆H₁₆Cl₂N₂O₄ **MW** 373.23
PS S **SG** 1.31 g/cm³ **MP** 51 °C **BP** 451 °C
FP 227 °C **SOL** A,T,M,EA,CN

Matrix	Cat. No.	Unit
NEAT	P-1010N	10 mg
100 µg/mL in MeOH	P-1010S	1 mL

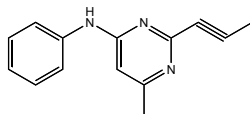
Meltatox, see *Dodemorph acetate*

Meothrin, see *Danitol*

MEP, see *Fenitrothion*

Mepanipyrim

N-(4-methyl-6-prop-1-ynylpyrimidin-2-yl)aniline

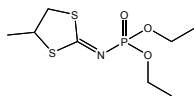


CAS 110235-47-7 **MF** C₁₄H₁₃N₃ **MW** 223.27 **PS** S
SG 1.16 g/cm³ **MP** 125-126 °C **BP** 418 °C
FP 207 °C **SOL** A,M,H,EA,T,D,CN

Matrix	Cat. No.	Unit
NEAT	P-855N	10 mg
100 µg/mL in AcCN	P-855S-CN	1 mL

Mephosfolan

Diethyl-4-methyl-1,3-dithiolan-2-ylidene phosphoramidate

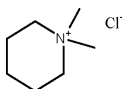


CAS 950-10-7 **MF** C₈H₁₆NO₃PS₂ **MW** 269.32 **PS** L
SG 1.38 g/cm³ **BP** 346 °C **FP** 163 °C **SOL** M,T,CN

Matrix	Cat. No.	Unit
NEAT	P-718N	10 mg
100 µg/mL in MeOH	P-718S	1 mL

Mepiquat chloride

1,1-Dimethylpiperidinium chloride

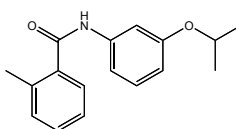


CAS 24307-26-4 **MF** C₇H₁₆ClN **MW** 149.66 **PS** S
SG 1.16 g/cm³ **MP** Decomp. ~230 °C
BP Decomp. ~230 °C **FP** >200 °C **SOL** M,A,T,W

Matrix	Cat. No.	Unit
NEAT	P-1062N	10 mg
100 µg/mL in MeOH	P-1062S	1 mL

Mepronil

3'-Isopropoxy-o-toluanilide



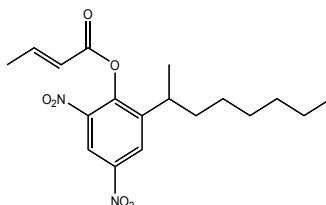
Basitac

CAS 55814-41-0 **MF** C₁₇H₁₉NO₂ **MW** 269.37 **PS** S
SG 1.11 g/cm³ **MP** 92 °C **BP** 340 °C **FP** 160 °C
SOL M,A,CN,H,T,EA,D

Matrix	Cat. No.	Unit
NEAT	P-736N	10 mg
100 µg/mL in MeOH	P-736S	1 mL

Meptyldinocap

2-(1-Methylheptyl)-4,6-dinitrophenyl (2E)-2-butenolate



CAS 131-72-6 **MF** C₁₈H₂₄N₂O₆ **MW** 364.39 **PS** L
SG 1.11 g/cm³ **MP** -22 °C **BP** Decomp. ~200 °C
FP 30 °C **SOL** M,A,T,H

Matrix	Cat. No.	Unit
100 µg/mL in MeOH	P-1043S	1 mL

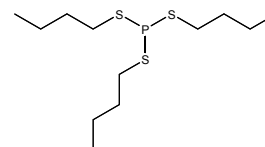
Mercaptodimethur, see *Methiocarb*

Mercaptophos, see *Fenthion*

Merit, see *Imidacloprid*

Merphos

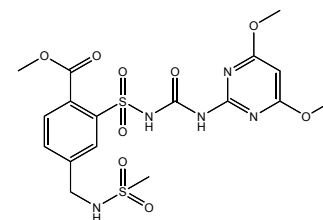
Tributylphosphorotrithioite



Folex

CAS 150-50-5 **MF** C₁₂H₂₇PS₃ **MW** 298.51 **PS** L
SG 0.99 g/cm³ **BP** 80 °C **FP** 184 °C
SOL M,A,D,H,T,CN,TP

Matrix	Cat. No.	Unit
NEAT	P-124N	10 mg
100 µg/mL in MeOH	P-124S	1 mL
1000 µg/mL in Hexane	P-124S-H-10X	1 mL

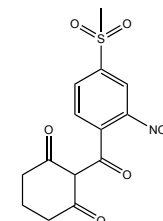
Mesosulfuron-methyl

CAS 208465-21-8 **MF** C₁₇H₂₁N₅O₉S₂ **MW** 503.51
PS S **SG** 1.48 g/cm³ **MP** 195-196 °C **BP** Decomp.
SOL M,CN,H,A,EA,T,D

Matrix	Cat. No.	Unit
NEAT	P-1044N	10 mg
100 µg/mL in MeOH	P-1044S	1 mL

Mesotrione

2-[4-(Methylsulfonyl)-2-nitrobenzoyl]cyclohexane-1,3-dione



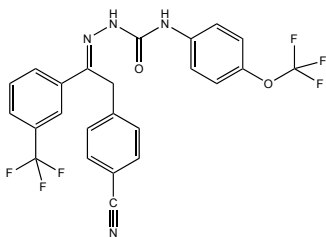
CAS 104206-82-8 **MF** C₁₄H₁₃NO₇S **MW** 339.32
PS L **SG** 1.49 g/cm³ **MP** 165-166 °C
SOL M,A,CN,EA,T

Matrix	Cat. No.	Unit
100 µg/mL in AcCN	P-962S-CN	1 mL

Metacil, see *Aminocarb*

**Metaflumizone**

(EZ)-2'-[2-(4-cyanophenyl)-1-(a,a,a-trifluoro-m-tolyl) ethylidene]-4-(trifluoromethoxy)carbanilohydrazide

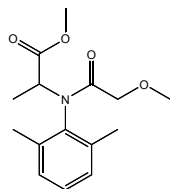


CAS 139968-49-3 **MF** C₂₄H₁₆F₆N₄O₂ **MW** 506.40
PS S SG 1.46 g/cm³ **MP** 133 °C
BP Decomp. ~232 °C **SOL** CN,T

Matrix	Cat. No.	Unit
100 µg/mL in AcCN	P-1090S-CN	1 mL

Metalaxyl

N-(2,6-Dimethylphenyl)-N-(methoxyacetyl)-alanine methyl ester

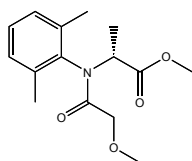


CAS 57837-19-1 **MF** C₁₅H₂₁NO₄ **MW** 279.33 **PS S**
SG 1.20 g/cm³ **MP** 63-72 °C **BP** 296 °C **FP** 100 °C
SOL M,A,D,H,T,CN,TP,EA,W

Matrix	Cat. No.	Unit
NEAT	P-120N	10 mg
100 µg/mL in MeOH	P-120S	1 mL

Metalaxyl-M

Methyl N-(2,6-dimethylphenyl)-N-(methoxyacetyl)-D-alaninate



Mefenoxam

CAS 70630-17-0 **MF** C₁₅H₂₁NO₄ **MW** 279.33 **PS L**
SG 1.13 g/cm³ **MP** -38.7 °C **BP** Decomp.
FP 179 °C **SOL** M,A,T,H,CN,W

Matrix	Cat. No.	Unit
NEAT	P-874N	10 mg
100 µg/mL in MeOH	P-874S	1 mL

Metaldexide ▲

2,4,6,8-tetramethyl-1,3,5,7-tetraoxocane



Metaldexide homopolymer

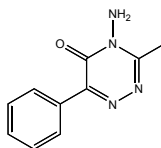
CAS 9002-91-9 **MF** (C₂H₄O)_n **MW** (44.05)_n **PS S**
SG 1.27 g/cm³ **MP** 246 °C **FP** 71 °C
SOL M,A,CN,W,T

Matrix	Cat. No.	Unit
NEAT	P-600N	10 mg
100 µg/mL in MeOH	P-600S	1 mL
100 µg/mL in AcCN	P-600S-CN	1 mL

Metaldexide homopolymer, see *Metaldexide*

Metamitron

4-Amino-4,5-dihydro-3-methyl-6-phenyl-1,2,4-triazin-5-one

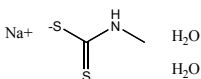


CAS 41394-05-2 **MF** C₁₀H₁₀N₂O **MW** 202.21 **PS S**
SG 1.34 g/cm³ **MP** 166-167 °C **BP** 336 °C
FP 157 °C **SOL** M,A,CN,EA,D,W,T,IPA

Matrix	Cat. No.	Unit
NEAT	P-252N	10 mg
100 µg/mL in MeOH	P-252S	1 mL

Metam-sodium dihydrate

Sodium N-methyldithiocarbamate



SMDC

CAS 6734-80-1 **MF** C₂H₅NS₂•Na•2H₂O **MW** 165.21
PS S SOL M

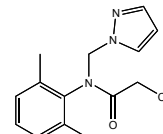
Matrix	Cat. No.	Unit
NEAT	P-381N	10 mg
100 µg/mL in MeOH	P-381S	1 mL

Metasystox I, see *Demeton-S-methyl*

Metasystox-R, see *Oxydemeton-methyl*

Metazachlor

2-chloro-N-(pyrazol-1-ylmethyl)acet-2',6'-xylylidide

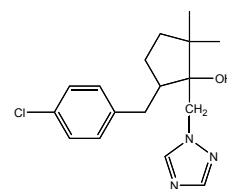


CAS 67129-08-2 **MF** C₁₄H₁₆ClN₃O **MW** 277.75
PS S SG 1.19 g/cm³ **MP** 71-81 °C **BP** 439 °C
FP 219 °C **SOL** M,A,H,CN,EA,T,D,W

Matrix	Cat. No.	Unit
NEAT	P-249N	10 mg
100 µg/mL in MeOH	P-249S	1 mL

Metconazole

(1RS,5RS:1RS,5SR)-5-(4-chlorobenzyl)-2,2-dimethyl-1-(1H-1,2,4-triazol-1-ylmethyl) cyclopentanol

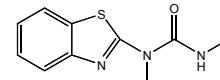


CAS 125116-23-6 **MF** C₁₇H₂₂ClN₃O **MW** 319.83
MP 111 °C **SOL** M,A,T,H,CN,W,IPA

Matrix	Cat. No.	Unit
NEAT	P-856N	10 mg
100 µg/mL in AcCN	P-856S-CN	1 mL
10 µg/mL in AcCN	P-856S-CN-0.1X	1 mL

Methabenzthiazuron

1-(1,3-Benzothiazol-2-yl)-1,3-dimethylurea

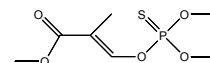


CAS 18691-97-9 **MF** C₁₀H₁₁N₃OS **MW** 221.28
PS S SG 1.33 g/cm³ **MP** 119-121 °C
SOL M,A,CN,EA,T,H,D,IPA

Matrix	Cat. No.	Unit
NEAT	P-563N	10 mg
100 µg/mL in MeOH	P-563S	1 mL

Methacrifos

Methyl-(E)-3-(dimethoxyphosphinothioxyloxy)-2-methylacrylate



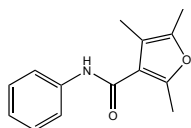
CAS 62610-77-9 **MF** C₇H₁₃O₅PS **MW** 240.21 **PS L**
SG 1.25 g/cm³ **MP** 90 °C **BP** 258 °C **FP** 110 °C
SOL M,A,D,H,T,CN,TP

Matrix	Cat. No.	Unit
NEAT	P-556N	10 mg
100 µg/mL in MeOH	P-556S	1 mL

Methamidophos, see *Monitor*

**Methfuroxam**

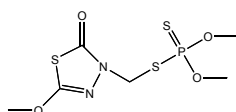
2,4,5-trimethyl-3-furanilid

CAS 28730-17-8 MF C₁₄H₁₅NO₂ MW 229.27 PS S
SG 1.15 g/cm³ SOL A,M,CN

Matrix	Cat. No.	Unit
100 µg/mL in AcCN	P-881S-CN	1 mL

Methidathion

O,O-Dimethyl-S-(2-methoxy-1,3,4-thiadiazol-5(4H)-onyl-4-methyl) dithiophosphate



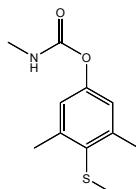
Suprathion

CAS 950-37-8 MF C₆H₁₁N₂O₄PS₃ MW 302.33 PS S
SG 1.51 g/cm³ MP 40 °C FP 100 °C
SOL M,A,D,H,T,CN,TP,EA,W

Matrix	Cat. No.	Unit
NEAT	P-195N	10 mg
100 µg/mL in MeOH	P-195S ‡	1 mL

Methiocarb

4-Methylthio-3,5-xylil methylcarbamate



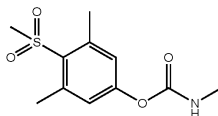
Mercaptodimethur

CAS 2032-65-7 MF C₁₁H₁₅NO₂S MW 225.31 PS S
SG 1.24 g/cm³ MP 119 °C
SOL M,A,D,T,CN,TP,EA,H,IPA

Matrix	Cat. No.	Unit
NEAT	P-156N	10 mg
100 µg/mL in MeOH	P-156S	1 mL

Methiocarb sulfone

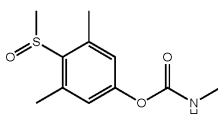
3,5-Dimethyl-4-(methylsulfonyl)phenyl methylcarbamate

CAS 2179-25-1 MF C₁₁H₁₅NO₃S MW 257.31 PS S
SG 1.25 g/cm³ MP 138-142 °C FP >150 °C
SOL M,CN

Matrix	Cat. No.	Unit
NEAT	P-570N	10 mg
100 µg/mL in AcCN	P-570S-CN	1 mL

Methiocarb sulfoxide

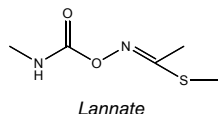
3,5-Dimethyl-4-(methylsulfinyl)phenyl methylcarbamate

CAS 2635-10-1 MF C₁₁H₁₅NO₃S MW 241.31 PS S
SG 1.35 g/cm³ MP 120-126 °C FP >150 °C
SOL M,CN

Matrix	Cat. No.	Unit
NEAT	P-650N	10 mg
100 µg/mL in MeOH	P-650S	1 mL

Methomyl

S-methyl N-(methylcarbamoyloxy)thioacetimidate



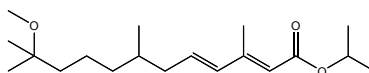
Lannate

CAS 16752-77-5 MF C₆H₁₁N₂O₂S MW 162.21 PS S
SG 1.17 g/cm³ MP 78 °C BP 144 °C
SOL M,A,D,H,T,CN,EA

Matrix	Cat. No.	Unit
NEAT	P-032N	10 mg
100 µg/mL in MeOH	P-032S	1 mL
1000 µg/mL in MeOH	P-032S-10X	1 mL

Methoprene

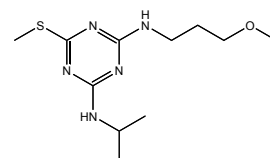
Isopropyl (E,E)-(RS)-11-methoxy-3,7,11-trimethyl-dodeca-2,4-dienoate

CAS 40596-69-8 MF C₁₉H₃₄O₃ MW 310.47 PS L
SG 0.921 g/cm³ BP 100 °C FP 136 °C
SOL M,A,D,H,CN,TP

Matrix	Cat. No.	Unit
NEAT	P-157N	10 mg
100 µg/mL in MeOH	P-157S	1 mL

Methoprotryne

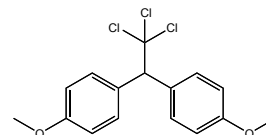
Isopropyl-[4-(3-methoxypropylamino)-6-(methylthio)-s-triazin-2-yl]amine

CAS 841-06-5 MF C₁₁H₂₁N₅OS MW 271.38 PS S
SG 1.32 g/cm³ MP 112 °C BP 363 °C FP 175 °C
SOL M,A,CN,EA,D,H,T

Matrix	Cat. No.	Unit
NEAT	P-564N	10 mg
100 µg/mL in MeOH	P-564S	1 mL

*Methoxone, see MCPA acid***Methoxychlor**

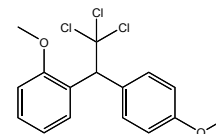
1,1'-(2,2,2-Trichloroethylidene)bis(4-methoxybenzene)

*p,p'*-Methoxychlor, DMDTCAS 72-43-5 MF C₁₆H₁₅Cl₃O₂ MW 345.65 PS S
SG 1.41 g/cm³ MP 86-88 °C BP >100 °C
FP <60 °C SOL M,A,D,H,T,CN,TP,EA

Matrix	Cat. No.	Unit
NEAT	P-064N	10 mg
100 µg/mL in MeOH	P-064S	1 mL
1000 µg/mL in MeOH	P-064S-10X	1 mL

o,p'-Methoxychlor

1,1,1-trichloro-2-(o-methoxyphenyl)-2-(p-methoxyphenyl)ethane

CAS 30667-99-3 MF C₁₆H₁₅Cl₃O₂ MW 345.65 PS S
SG 1.41 g/cm³ MP ~89 °C SOL M,A,D,H,CN,TP,EA

Matrix	Cat. No.	Unit
100 µg/mL in MeOH	P-535S	1 mL
100 µg/mL in Isooctane	P-535S-TP	1 mL

p,p'-Methoxychlor, see Methoxychlor

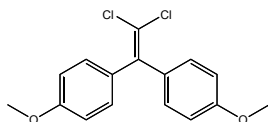
‡ V-Rated packaging surcharge applies for international shipments



Pesticide Standards

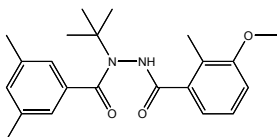
p,p'-Methoxychlor-olefin

1,1'-(Dichloroethenylidene)bis(4-methoxybenzene)

CAS 2132-70-9 MF C₁₆H₁₄Cl₂O₂ MW 309.19 PS S
SG 1.23 g/cm³ MP 118-119 °C BP 413 °C FP 145 °C
SOL M,TP

Matrix	Cat. No.	Unit
100 µg/mL in MeOH	P-466S	1 mL
1000 µg/mL in MeOH	P-466S-10X	1 mL

Methoxyfenozide

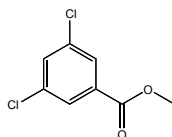
N'-(tert-Butyl)-N'-(3,5-dimethylbenzoyl)-
3-methoxy-2-methylbenzohydrazideCAS 161050-58-4 MF C₂₂H₂₈N₂O₃ MW 368.47
PS S SG 1.10 g/cm³ MP 204.5 °C
SOL M,CN,A,D,EA,DMSO

Matrix	Cat. No.	Unit
NEAT	P-857N	10 mg
100 µg/mL in AcCN	P-857S-CN	1 mL

p-Methoxynitrobenzene, see 4-Nitroanisole

Methyl-3,5-dichlorobenzoate

3,5-Dichlorobenzoic acid methyl ester

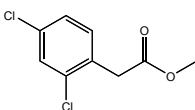
CAS 2905-67-1 MF C₈H₆Cl₂O₂ MW 205.04 PS S
SG 1.36 g/cm³ BP 273 °C FP 118 °C SOL M

Matrix	Cat. No.	Unit
NEAT	P-247N	10 mg
100 µg/mL in MeOH	P-247S	1 mL
1000 µg/mL in MeOH	P-247S-10X	1 mL

Methyl 2,4-Dichlorophenoxyacetate, see 2,4-D
*Methyl ester**Methyl 2,6-dichlorophenoxyacetate*, see 2,6-D
methyl ester

Methyl-2,4-dichlorophenylacetate

2,4-Dichlorophenylacetic acid methyl ester



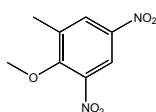
DCAA methyl ester

CAS 55954-23-9 MF C₉H₇Cl₂O₂ MW 219.06 S L
SG 1.32 g/cm³ BP 272 °C FP 115 °C SOL M,H

Matrix	Cat. No.	Unit
NEAT	P-214N	10 mg
100 µg/mL in MeOH	P-214S	1 mL

2-Methyl-4,6-dinitroanisole

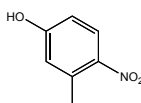
2-Methyl-4,6-dinitroanisole

CAS 29027-13-2 MF C₈H₈N₂O₅ MW 212.16
SG 1.38 g/cm³ BP 369 °C FP 183 °C SOL M

Matrix	Cat. No.	Unit
NEAT	P-611N	10 mg
100 µg/mL in MeOH	P-611S	1 mL

3-Methyl-4-nitrophenol

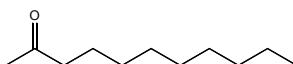
4-Nitro-3-cresol

CAS 2581-34-2 MF C₇H₇NO₃ MW 153.14 PS S
SG 1.32 g/cm³ MP 125-130 °C BP 200 °C FP 110 °C
SOL M,A

Matrix	Cat. No.	Unit
NEAT	P-509N	10 mg
100 µg/mL in MeOH	P-509S	1 mL

Methyl nonyl ketone ▲

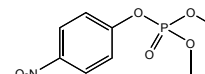
2-Undecanone

CAS 112-12-9 MF C₁₁H₂₂O MW 170.29
SG 0.82 g/cm³ BP 231 °C FP 89 °C
SOL A,M,IPA,D

Matrix	Cat. No.	Unit
NEAT	P-415N	10 mg
100 µg/mL in MeOH	P-415S	1 mL
100 µg/mL in AcCN	P-415S-CN	1 mL

Methyl paraoxon

Dimethyl-p-nitrophenylphosphate



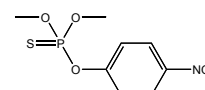
Paraoxon-methyl

CAS 950-35-6 MF C₈H₁₀NO₅P MW 247.14 PS L
SG 1.38 g/cm³ MP 0-4 °C BP 315 °C FP 144 °C
SOL M,A,D,T,CN,EA

Matrix	Cat. No.	Unit
NEAT	P-311N	10 mg
100 µg/mL in MeOH	P-311S	1 mL

Methyl parathion

O,O-Dimethyl O-(p-nitrophenyl) phosphorothioate



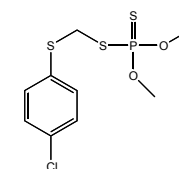
Azophos

CAS 298-00-0 MF C₈H₁₀NO₃PS MW 263.33 PS S
SG 1.38 g/cm³ MP 35-36 °C BP 154 °C
SOL M,A,D,H,T,CN,TP,EA

Matrix	Cat. No.	Unit
NEAT	P-065N	10 mg
100 µg/mL in MeOH	P-065S	1 mL
1000 µg/mL in MeOH	P-065S-10X	1 mL
1000 µg/mL in Hexane	P-065S-H-10X	1 mL

Methyl (2,4,5-trichlorophenoxy)acetate,
see 2,4,5-T methyl ester*Methyl 3,4,6-Trichloro-2-pyridyloxyacetate*, see
Triclopyr methyl ester

Methyl trithion

[[[(4-chlorophenyl)thio]methylthio]-dimethoxy-
thioxo-phosphorane

Carbophenothion methyl

CAS 953-17-3 MF C₉H₁₂ClO₂PS₃ MW 314.81
SOL M

Matrix	Cat. No.	Unit
100 µg/mL in MeOH	P-652S	1 mL

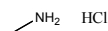
Methyl viologen dichloride hydrate, see Paraquat
dichloride tetrahydrate

▲ Pesticides containing a carboxyl group may autoesterify in Methanol. These standards are intended for use after making the methyl derivative. For analysis of the parent compound we suggest a non-hydroxylic solvent such as Acetonitrile.



Methylamine hydrochloride

Methylammonium chloride

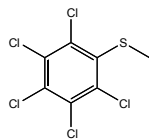


CAS 593-51-1 **MF** CH₅N • HCl **MW** 67.52 **PS** S
MP 228-233 °C **BP** 375 °C **SOL** M

Matrix	Cat. No.	Unit
NEAT	P-624N	10 mg
100 µg/mL in MeOH	P-624S	1 mL

Methylpentachlorophenyl sulfide

Pentachlorothioanisole



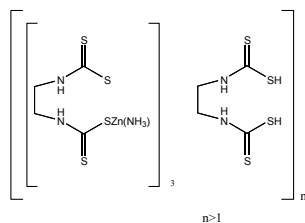
MPCPS

CAS 1825-19-0 **MF** C₇H₃Cl₅S **MW** 296.43 **PS** S
SG 1.68 g/cm³ **MP** 95 °C **BP** 318 °C **FP** 140 °C
SOL M,A,D,H,T,CN

Matrix	Cat. No.	Unit
NEAT	P-567N	10 mg
100 µg/mL in MeOH	P-567S	1 mL

Metiram

Ethylenebis(dithiocarbamic acid), polymer with ammonia complex of zinc EBDC



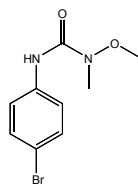
CAS 9006-42-2 **MF** [C₁₆H₃₃N₃S₁₆Zn₃]_x
MW (1088.6)_x **PS** S **SG** 1.86 g/cm³ **MP** ~156 °C
SOL M,A,T,EA

Matrix	Cat. No.	Unit
NEAT	P-416N	10 mg

Metizolin, see *Benazolin*

Metobromuron

3-(4-Bromophenyl)-1-methoxy-1-methylurea

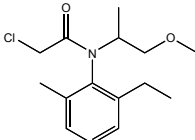


CAS 3060-89-7 **MF** C₉H₁₁BrN₂O₂ **MW** 259.1 **PS** S
SG 1.53 g/cm³ **MP** 95-96 °C
SOL M,A,CN,EA,H,D,W

Matrix	Cat. No.	Unit
NEAT	P-436N	10 mg
100 µg/mL in MeOH	P-436S	1 mL

Metolachlor

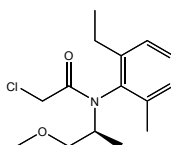
2-Chloro-6'-ethyl-N-(2-methoxy-1-methylethyl)acet-o-toluidide



CAS 51218-45-2 **MF** C₁₄H₁₇ClNO₂ **MW** 271.8 **PS** L
SG 1.12 g/cm³ **BP** 100 °C
SOL M,A,D,H,T,CN,TP,EA,W

Matrix	Cat. No.	Unit
NEAT	P-158N	10 mg
100 µg/mL in MeOH	P-158S	1 mL
1000 µg/mL in MeOH	P-158S-10X	1 mL

S-Metolachlor

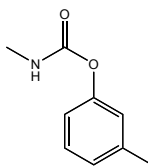


CAS 87392-12-9 **MF** C₁₅H₂₂ClNO₂ **MW** 283.79
PS L **SG** 1.12 g/cm³ **MP** -61 °C **BP** 334 °C
SOL M,A,T,H,EA,W,D

Matrix	Cat. No.	Unit
NEAT	P-1013N	10 mg
100 µg/mL in MeOH	P-1013S	1 mL

Metolcarb

m-Tolyl methylcarbamate



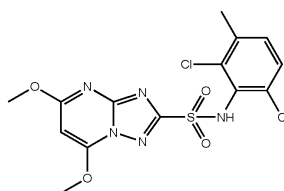
MTMC

CAS 1129-41-5 **MF** C₉H₁₁NO₂ **MW** 165.2 **PS** S
SG 1.08 g/cm³ **MP** 74-77 °C **BP** 242 °C **FP** 100 °C
SOL M,A,CN

Matrix	Cat. No.	Unit
NEAT	P-494N	10 mg
100 µg/mL in MeOH	P-494S	1 mL

Metosulam

N-(2,6-Dichloro-3-methylphenyl)-5,7-dimethoxy[1,2,4]triazolo[1,5-a]pyrimidine-2-sulfonamide

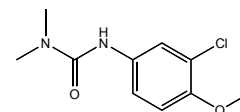


CAS 139528-85-1 **MF** C₁₄H₁₃Cl₂N₅O₄S **MW** 418.26
PS S **SG** 1.49 g/cm³ **MP** 211 °C
SOL A,EA,M,T,CN,W,D,H

Matrix	Cat. No.	Unit
100 µg/mL in AcCN	P-900S-CN	1 mL

Metoxuron

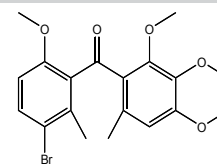
3-(3-chloro-4-methoxyphenyl)-1,1-dimethylurea



CAS 19937-59-8 **MF** C₁₀H₁₃ClN₂O₂ **MW** 228.7 **PS** S
SG 1.25 g/cm³ **MP** 124-127 °C **BP** 392 °C
FP 191 °C **SOL** M,A,CN,W

Matrix	Cat. No.	Unit
NEAT	P-437N	10 mg
100 µg/mL in MeOH	P-437S	1 mL

Metrafenone

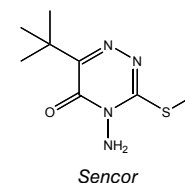


CAS 220899-03-6 **MF** C₁₉H₂₁BrO₅ **MW** 409.27
PS S **SG** 1.45 g/cm³ **MP** 100 °C
BP Decomp. ~310 °C **SOL** M,A,CN,D,EA,T,H

Matrix	Cat. No.	Unit
NEAT	P-1032N	10 mg
100 µg/mL in AcCN	P-1032S-CN	1 mL

Metribuzin

4-Amino-6-tert-butyl-3-methylthio-1,2,4-triazin-5(4H)-one



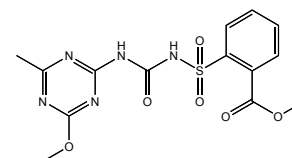
Sencor

CAS 21087-64-9 **MF** C₈H₁₄N₄OS **MW** 214.32 **PS** S
SG 1.31 g/cm³ **MP** 126 °C **BP** 132 °C
SOL M,A,D,H,T,CN,TP,EA,IPA,W

Matrix	Cat. No.	Unit
NEAT	P-089N	10 mg
100 µg/mL in MeOH	P-089S	1 mL
1000 µg/mL in MeOH	P-089S-10X	1 mL

Metsulfuron-methyl

2-[[[(4-Methoxy-6-methyl-1,3,5-triazin-2-yl)amino]carbonyl]amino]sulfonyl]benzoic acid methyl ester



CAS 74223-64-6 **MF** C₁₄H₁₅N₅O₅S **MW** 381.37
PS S **SG** 1.46 g/cm³ **MP** 158 °C **BP** 647 °C
FP 345 °C **SOL** M,A,T,H,W,D,EA

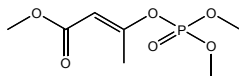
Matrix	Cat. No.	Unit
NEAT	P-463N	10 mg
100 µg/mL in MeOH	P-463S	1 mL



Pesticide Standards

Mevinphos

2-Butenoic acid, 3-[(dimethoxyphosphinyloxy]-, methyl ester



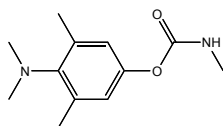
Phosdrin

CAS 7786-34-7 **MF** C₈H₁₃O₅P **MW** 224.15 **PS** L
SG 1.23 g/cm³ **MP** -56 °C **BP** 99-103 °C
SOL M,A,D,H,T,CN,TP,EA

Matrix	Cat. No.	Unit
NEAT	P-074N	10 mg
100 µg/mL in MeOH	P-074S	1 mL
1000 µg/mL in Hexane	P-074S-H-10X	1 mL

Mexacarbate

4-Dimethylamino-3,5-xylyl methylcarbamate



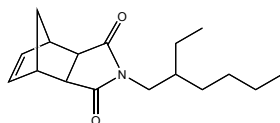
Zectran

CAS 315-18-4 **MF** C₁₂H₁₈N₂O₂ **MW** 222.32 **PS** S
SG 1.08 g/cm³ **MP** 85 °C **BP** 318 °C **FP** 146 °C
SOL M,A,D,CN

Matrix	Cat. No.	Unit
NEAT	P-030N	10 mg
100 µg/mL in MeOH	P-030S	1 mL

MGK-264

N-(2-ethylhexyl)-8,9,10-trinorborn-5-ene-2,3-dicarboximide



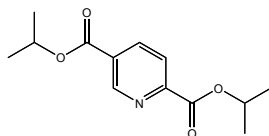
ENT 8184

CAS 113-48-4 **MF** C₁₇H₂₅NO₂ **MW** 275.43 **PS** L
SG 1.04 g/cm³ **MP** <-20 °C **BP** 150 °C
SOL M,A,D,EA

Matrix	Cat. No.	Unit
NEAT	P-082N	10 mg
100 µg/mL in MeOH	P-082S	1 mL

MGK-326

Dipropyl 2,5-pyridine-2,5-dicarboxylate



Dipropyl isocinchomerate

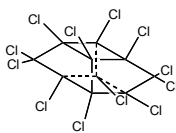
CAS 136-45-8 **MF** C₁₃H₁₇NO₄ **MW** 251.28 **PS** L
SG 1.12 g/cm³ **MP** 21 °C **BP** 302 °C **SOL** M,A

Matrix	Cat. No.	Unit
NEAT	P-342N	10 mg
100 µg/mL in MeOH	P-342S	1 mL

MIPC, see *Isoprocarb*

Mirex

Dodecachloropentacyclo[5.3.0.0.02,6.03,9.04,8]decane



Dechlorane

CAS 2385-85-5 **MF** C₁₀Cl₁₂ **MW** 545.5 **PS** S
SG 2.25 g/cm³ **MP** 485 °C **FP** 202 °C
SOL M,A,D,H,T,CN,TP,EA

Matrix	Cat. No.	Unit
NEAT	P-066N	10 mg
100 µg/mL in MeOH	P-066S	1 mL
1000 µg/mL in MeOH	P-066S-10X	1 mL

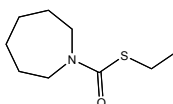
Mitotane, see *o,p'-DDD*

Mocap, see *Ethoprop*

Molinat, see *Molinat*

Molinat

S-Ethyl azepan-1-carbothioate



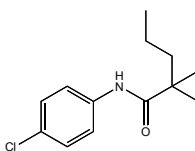
Molinat

CAS 2212-67-1 **MF** C₁₁H₁₇NOS **MW** 187.3 **PS** L
SG 1.06 g/cm³ **BP** 202 °C **FP** 93 °C
SOL M,A,D,H,T,CN,TP,EA,W

Matrix	Cat. No.	Unit
NEAT	P-176N	10 mg
100 µg/mL in MeOH	P-176S	1 mL

Monalide

4'-Chloro-2,2-dimethylvaleraniide



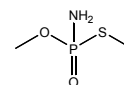
CAS 7287-36-7 **MF** C₁₃H₁₈ClNO **MW** 239.74 **PS** S
SG 1.10 g/cm³ **MP** 87-88 °C **BP** 378 °C **FP** 184 °C
SOL M,CN

Matrix	Cat. No.	Unit
NEAT	P-737N	10 mg
100 µg/mL in MeOH	P-737S	1 mL

Moncut™, see *Flutolanil*

Monitor

O,S-Dimethyl phosphoramidothioate



Methamidophos, Taron

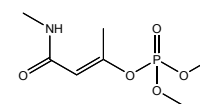
CAS 10265-92-6 **MF** C₂H₈NO₂PS **MW** 141.13 **PS** S
SG 1.27 g/cm³ **MP** 45 °C **BP** ~160 °C **FP** 212 °C
SOL M,A,D,H,T,CN,TP,EA,W,IPA

Matrix	Cat. No.	Unit
NEAT	P-155N	10 mg
100 µg/mL in MeOH	P-155S	1 mL

Monocron, see *Monocrotophos*

Monocrotophos

(E)-Dimethyl 1-methyl-3-(methylamino)-3-oxo-1-phosphoric acid, propenyl ester



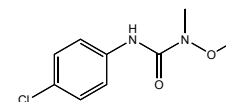
Azodrin, Monocron, Nunacton

CAS 6923-22-4 **MF** C₇H₁₄NO₅P **MW** 223.16 **PS** S
SG 1.22 g/cm³ **MP** 55 °C **BP** 125 °C
SOL M,A,D,H,T,CN,EA,W

Matrix	Cat. No.	Unit
NEAT	P-112N	10 mg
100 µg/mL in MeOH	P-112S	1 mL
1000 µg/mL in MeOH	P-112S-10X	1 mL

Monolinuron

3-(4-Chlorophenyl)-1-methoxy-1-methylurea

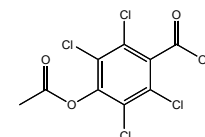


CAS 1746-81-2 **MF** C₉H₁₁ClN₂O₂ **MW** 214.65 **PS** S
SG 1.30 g/cm³ **MP** 80-83 °C
SOL M,A,H,CN,EA,T,W

Matrix	Cat. No.	Unit
NEAT	P-382N	10 mg
100 µg/mL in MeOH	P-382S	1 mL

Monomethyltetrachloroterephthalate

Monomethyl tetrachloroterephthalate



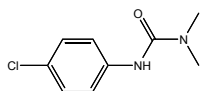
Dacthal monoacid, DCPA monoacid

CAS 887-54-7 **MF** C₈H₄Cl₄O₄ **MW** 317.94 **PS** S
SG 1.69 g/cm³ **MP** 158-159 °C **BP** 429 °C **FP** 213 °C
SOL A,CN

Matrix	Cat. No.	Unit
NEAT	P-707N	10 mg
100 µg/mL in Acetone	P-707S-A	1 mL

**Monuron**

3-(4-chlorophenyl)-1,1-dimethylurea

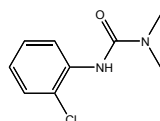


CAS 150-68-5 **MF** C₉H₁₁ClN₂O **MW** 198.65 **PS** S
SG 1.27 g/cm³ **MP** 174 °C **SOL** M,A,CN

Matrix	Cat. No.	Unit
NEAT	P-023N	10 mg
100 µg/mL in MeOH	P-023S	1 mL

2-Monuron

3-(2-chlorophenyl)-1,1-dimethylurea

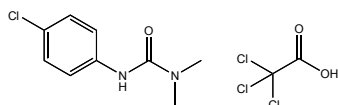


CAS N/A **MF** C₉H₁₁ClN₂O **MW** 198.65 **PS** S **SOL** M

Matrix	Cat. No.	Unit
NEAT	P-633N	10 mg
100 µg/mL in MeOH	P-633S	1 mL

Monuron TCA

3-(4-Chlorophenyl)-1,1-dimethylurea trichloroacetate salt



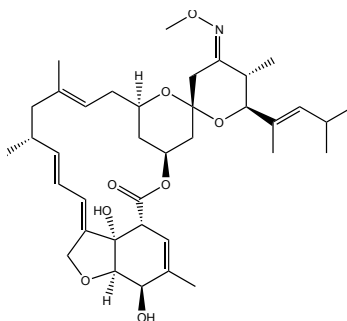
Monuron trichloroacetate

CAS 140-41-0 **MF** C₂HCl₃O₂•C₉H₁₁ClN₂O
MW 362.04 **PS** S **MP** 78-81 °C **BP** 359 °C
FP 171 °C **SOL** M,CN

Matrix	Cat. No.	Unit
NEAT	P-034N	10 mg
100 µg/mL in MeOH	P-034S	1 mL

Monuron trichloroacetate, see *Monuron TCA*

Morestan, see *Chinomethionate*

Moxidectin

CAS 113507-06-5 **MF** C₃₇H₅₃NO₈ **MW** 639.82
PS S **SOL** CN

Matrix	Cat. No.	Unit
100 µg/mL in AcCN	P-961S-CN	1 mL

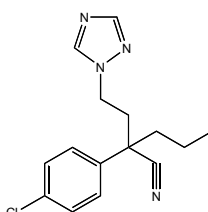
MPCPS, see *Methylpentachlorophenyl sulfide*

MSMA, see *Buono*

MTMC, see *Metolcarb*

Myclobutanil

A-Butyl-A(4-Chlorophenyl)-1H-1,2,4-Thiazole-1-Propanenitrile



Systhane

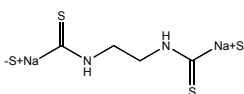
CAS 88671-89-0 **MF** C₁₅H₁₇ClN₃ **MW** 288.78 **PS** S
SG 1.16 g/cm³ **MP** 63-68 °C **BP** 465 °C **FP** 235 °C
SOL M,A,H,T,CN,EA,W

Matrix	Cat. No.	Unit
NEAT	P-330N	10 mg
100 µg/mL in MeOH	P-330S	1 mL
1000 µg/mL in MeOH	P-330S-10X	1 mL

N-Serve, see *Nitrapyrin*

Nabam

Ethylene bisdithiocarbamate, disodium



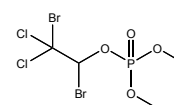
Nabam

CAS 142-59-6 **MF** C₄H₆N₂Na₂S₄ **MW** 256.35 **PS** S
SG 1.14 g/cm³ **BP** 308 °C **FP** 140 °C
SOL A,M,EA,W

Matrix	Cat. No.	Unit
NEAT	P-383N	10 mg
100 µg/mL in MeOH	P-383S	1 mL

Naled

1,2-Dibromo-2,2-dichloroethyl dimethyl phosphate



Dibrom

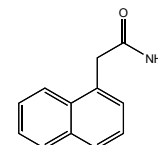
CAS 300-76-5 **MF** C₄H₇Br₂Cl₂O₄P **MW** 380.78
PS S **SG** 1.96 g/cm³ **MP** 27 °C **BP** 110 °C
SOL M,A,D,H,T,CN,TP,EA

Matrix	Cat. No.	Unit
NEAT	P-159N	10 mg
100 µg/mL in MeOH	P-159S	1 mL
1000 µg/mL in Hexane	P-159S-H-10X	1 mL

Namab, see *Nabam*

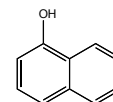
1-Naphthalene acetamide

1-Naphthalene acetamide



CAS 86-86-2 **MF** C₁₂H₁₁NO **MW** 185.2 **PS** S
MP 180-183 °C **SOL** M,A,IPA

Matrix	Cat. No.	Unit
NEAT	P-512N	10 mg
100 µg/mL in MeOH	P-512S	1 mL

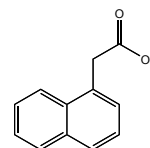
1-Naphthol

CAS 90-15-3 **MF** C₁₀H₈O **MW** 144.17 **PS** S
SG 0.79 g/cm³ **MP** 95-96 °C **BP** 278-280 °C
FP 125 °C **SOL** M,A,D,CN,EA

Matrix	Cat. No.	Unit
NEAT	P-1007N	10 mg
100 µg/mL in MeOH	P-1007S	1 mL

1-Naphthylacetic acid

1-Naphthylacetic acid



CAS 86-87-3 **MF** C₁₂H₁₀O₂ **MW** 186.21 **PS** S
SG 1.11 g/cm³ **MP** 130 °C **FP** >100 °C
SOL M,A,W

Matrix	Cat. No.	Unit
NEAT	P-461N	10 mg
100 µg/mL in MeOH	P-461S	1 mL

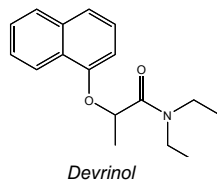
▲ Pesticides containing a carboxyl group may autoesterify in Methanol. These standards are intended for use after making the methyl derivative. For analysis of the parent compound we suggest a non-hydroxylic solvent such as Acetonitrile.



Pesticide Standards

Napropamide

N,N-Diethyl-2-naphthoxypropanamid
(unstated stereochemistry)



Devinol

CAS 15299-99-7 **MF** C₁₇H₂₁NO₂ **MW** 271.35
PS S **SG** 1.08 g/cm³ **MP** 73-78 °C **BP** 430 °C
FP 214 °C **SOL** M,A,D,H,CN,TP,EA

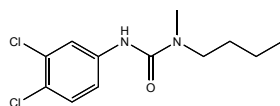
Matrix	Cat. No.	Unit
NEAT	P-179N	10 mg
100 µg/mL in MeOH	P-179S	1 mL

Naptalam, see Alanap

Navadel, see Dioxathion

Neburon

1-Butyl-3-(3,4-Dichlorophenyl)-1-methylurea

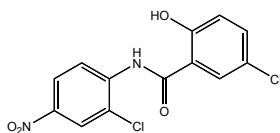


CAS 555-37-3 **MF** C₁₂H₁₆Cl₂N₂O **MW** 275.17 **PS S**
MP 102-103 °C **SOL** M,A,CN

Matrix	Cat. No.	Unit
NEAT	P-041N	10 mg
100 µg/mL in MeOH	P-041S	1 mL

Niclosamide

2'-5-Dichloro-4'-nitrosalicylanilide



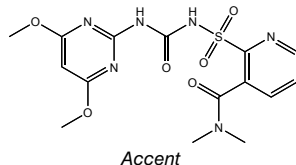
CAS 50-65-7 **MF** C₁₃H₈Cl₂N₂O₄ **MW** 327.12 **PS S**
MP 208 °C **BP** 424 °C **FP** 210 °C **SOL** M

Matrix	Cat. No.	Unit
NEAT	P-160N	10 mg
100 µg/mL in MeOH	P-160S	1 mL

Nicobifen, see Boscalid

Nicosulfuron

2-(4,6-Dimethoxypyrimidin-2-ylcarbamoylsulfamoyl)-N,N-dimethylnicotinamide



Accent

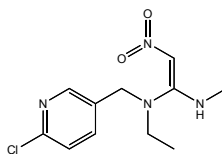
CAS 111991-09-4 **MF** C₁₅H₁₈N₆O₆S **MW** 410.41
PS S **SG** 1.44 g/cm³ **MP** 141-144 °C
SOL A,D,M,EA,CN,T

Matrix	Cat. No.	Unit
NEAT	P-591N	10 mg
100 µg/mL in AcCN	P-591S-CN	1 mL

Nissorun, see Hexythiazox

Nitenpyram

(E)-N-(6-chloro-3-pyridylmethyl)-N-ethyl-N'-methyl-2-nitrovinylidenediamine

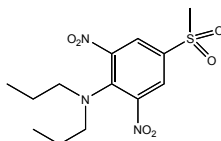


CAS 120738-89-8 **MF** C₁₁H₁₅ClN₄O₂ **MW** 270.72
PS S **SG** 1.40 g/cm³ **MP** 82 °C **FP** >70 °C
SOL M,A,CN,W,D,EA,T

Matrix	Cat. No.	Unit
NEAT	P-858N	10 mg
100 µg/mL in AcCN	P-858S-CN	1 mL

Nitralin

4-Methylsulphonyl-2,6-dinitro-N,N-dipropylaniline

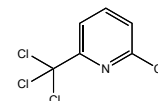


CAS 4726-14-1 **MF** C₁₃H₁₉N₃O₆S **MW** 345.37 **PS S**
SG 1.33 g/cm³ **MP** 151-152 °C **BP** 507 °C
FP 260 °C **SOL** M,A,CN

Matrix	Cat. No.	Unit
NEAT	P-583N	10 mg
100 µg/mL in MeOH	P-583S	1 mL

Nitrapyrin

2-Chloro-6-(trichloromethyl)pyridine



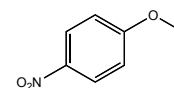
N-Serve

CAS 1929-82-4 **MF** C₇H₃Cl₄N **MW** 230.91 **PS S**
SG 1.58 g/cm³ **MP** 62-63 °C **BP** 136-138 °C
FP 135 °C **SOL** M,D,T,CN,A

Matrix	Cat. No.	Unit
NEAT	P-489N	10 mg
100 µg/mL in MeOH	P-489S	1 mL

4-Nitroanisole

1-Methoxy-4-nitrobenzene



p-Methoxy-nitrobenzene

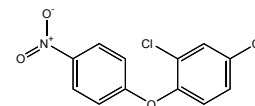
CAS 100-17-4 **MF** C₇H₇NO₂ **MW** 153.14 **PS S**
SG 1.22 g/cm³ **MP** 54 °C **BP** 274 °C **SOL** M

Matrix	Cat. No.	Unit
NEAT	P-273N	10 mg
100 µg/mL in MeOH	P-273S	1 mL

Nitrochloroform, see Chloropicrin

Nitrofen

2,4-Dichlorophenyl-4-nitrophenyl ether



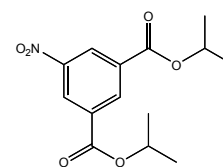
Trizilin

CAS 1836-75-5 **MF** C₁₂H₇Cl₂NO₂ **MW** 284.09 **PS S**
SG 1.45 g/cm³ **MP** 69-72 °C **BP** 361 °C **FP** 172 °C
SOL M,A,D,H,T,CN,TP

Matrix	Cat. No.	Unit
NEAT	P-363N	10 mg
100 µg/mL in MeOH	P-363S	1 mL

Nitrothal-isopropyl

Diisopropyl 5-nitrosophthalate

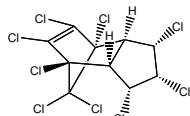


CAS 10552-74-6 **MF** C₁₄H₁₇NO₆ **MW** 295.29 **PS S**
SG 1.21 g/cm³ **MP** 65 °C **BP** 398 °C **FP** 157 °C
SOL M,A,CN,EA

Matrix	Cat. No.	Unit
NEAT	P-695N	10 mg
100 µg/mL in MeOH	P-695S	1 mL

**cis-Nonachlor**

2,3-3a-4,7a-hexahydro-4,7-methano-(1H)indene

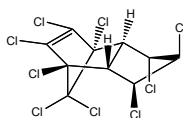


CAS 5103-73-1 **MF** C₁₀H₅Cl₉ **MW** 444.22 **PS** S
SG 1.59 g/cm³ **MP** 209-210 °C
SOL M,A,D,H,T,CN,TP,EA

Matrix	Cat. No.	Unit
NEAT	P-297N	10 mg
100 µg/mL in MeOH	P-297S	1 mL
1000 µg/mL in MeOH	P-297S-10X	1 mL

trans-Nonachlor

(1-alpha,2-beta,3-alpha,3a-alpha,4-beta,7-beta,7a-alpha)-1,2,3,4,5,6,7,8,8-Nonachloro-2,3,3a,4,7,7a-hexahydro-4,7-methano-1H-indene

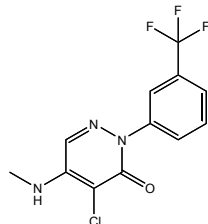


CAS 39765-80-5 **MF** C₁₀H₅Cl₉ **MW** 444.22 **PS** S
SG 1.86 g/cm³ **MP** 148-149 °C **BP** 451 °C
FP 229 °C **SOL** M,A,D,H,T,CN,TP,EA

Matrix	Cat. No.	Unit
NEAT	P-184N	10 mg
100 µg/mL in MeOH	P-184S	1 mL

Norflurazon

4-Chloro-5-methylamino-2-(alpha, alpha, alpha-trifluoro-m-tolyl)pyridazin-3(2H)-one

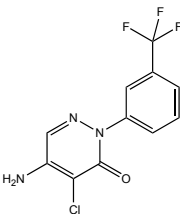


CAS 27314-13-2 **MF** C₁₂H₉ClF₃N₃O **MW** 303.67
PS S **SG** 1.45 g/cm³ **MP** 176 °C **BP** 345 °C
FP 163 °C **SOL** M,A,D,H,T,CN,EA

Matrix	Cat. No.	Unit
NEAT	P-217N	10 mg
100 µg/mL in MeOH	P-217S	1 mL

Norflurazon-desmethyl

4-Chloro-5-amino-2-(a,a,a-trifluoro-m-tolyl)-3(2H)-pyridazinone

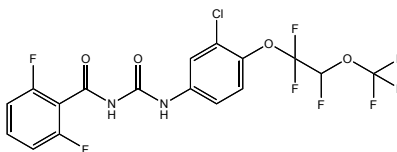


CAS 23576-24-1 **MF** C₁₁H₇ClF₃N₃O **MW** 289.64
PS S **MP** >154 °C **SOL** CN

Matrix	Cat. No.	Unit
100 µg/mL in AcCN	P-1129S-CN	1 mL

Novaluron

1-[3-chloro-4-(1,1,2-trifluoro-2-trifluoromethoxyethoxy)phenyl]-3-(2,6-difluorobenzoyl)urea



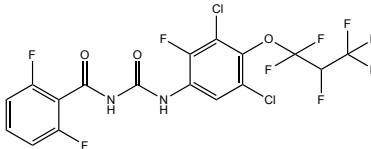
Rimon

CAS 116714-46-6 **MF** C₁₇H₉ClF₈N₂O₄ **MW** 492.7
SOL M,A,CN,EA,D

Matrix	Cat. No.	Unit
NEAT	P-966N-5MG	5 mg
100 µg/mL in MeOH	P-966S	1 mL

Noviflumuron

(RS)-1-[3,5-dichloro-2-fluoro-4-(1,1,2,3,3,3-hexafluoropropoxy)phenyl]-3-(2,6-difluorobenzoyl)urea

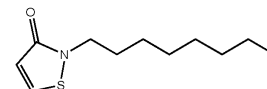


CAS 121451-02-3 **MF** C₁₇H₇Cl₂F₉N₂O₃ **MW** 529.14
PS S **SG** 1.88 g/cm³ **MP** 156-157 °C
BP Decomp. ~250 °C **SOL** A,EA,M,CN

Matrix	Cat. No.	Unit
100 µg/mL in AcCN	P-967S-CN	1 mL

Nuarimol, see Trimidal**Nunacton**, see Monocrotophos**Octachlor**, see Chlordane**Octalene**, see Aldrin**Octhilonone**

2-Octyl-1,2-thiazol-3(2H)-one

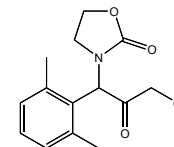


CAS 26530-20-1 **MF** C₁₁H₁₉NOS **MW** 213.34 **PS** L
SG 1.05 g/cm³ **FP** >100 °C **SOL** A,CN,M,T,EA,H

Matrix	Cat. No.	Unit
Neat	P-788N	1 mL

Off, see Deet (Off)**Ofunack**, see Pyridaphenthion**Ofurace**

(±)-2-Chloro-N-(2,6-dimethylphenyl)-N-(tetrahydro-2-oxo-3-furanyl)-acetamide

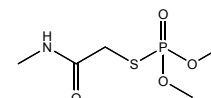


CAS 58810-48-3 **MF** C₁₄H₁₆ClNO₃ **MW** 281.73
PS S **SG** 1.30 g/cm³ **MP** 144-146 °C **BP** 483 °C
FP 246 °C **SOL** A,CN,TP,EA,M

Matrix	Cat. No.	Unit
10 µg/mL in TP	P-653S-TP-0.1X	1 mL

Omethoate

O,O-Dimethyl S-methylcarbamoymethyl phosphorothioate



Dimethoxon

CAS 1113-02-6 **MF** C₅H₁₂NO₄PS **MW** 213.19 **PS** L
SG 1.32 g/cm³ **MP** -28 °C **BP** ~135 °C **FP** 128 °C
SOL M,A,D,H,T,CN,TP,EA

Matrix	Cat. No.	Unit
NEAT	P-121N	10 mg
100 µg/mL in MeOH	P-121S	1 mL
1000 µg/mL in MeOH	P-121S-10X	1 mL

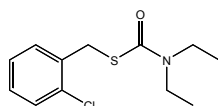
Omite, see Propargite**OMPA**, see Schradan



Pesticide Standards

Orbencarb

S-2-Chlorobenzyl diethylthiocarbamate



Lanray

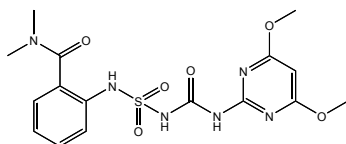
CAS 34622-58-7 MF C₁₂H₁₆ClNOS MW 257.78
 PS L SG 1.18 g/cm³ MP 9 °C BP 350 °C
 FP 166 °C SOL M,D,A,H,T

Matrix	Cat. No.	Unit
NEAT	P-433N	10 mg
100 µg/mL in MeOH	P-433S	1 mL

Orthene, see Acephate

Orthosulfamuron

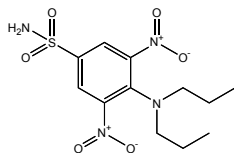
1-(4,6-dimethoxypyrimidin-2-yl)-3-[2-(dimethylcarbamoyl)phenylsulfamoyl]urea



CAS 213464-77-8 MF C₁₆H₂₀N₆O₆S MW 424.43
 PS S SG 1.48 g/cm³ MP 157 °C BP Decomp.
 SOL A,EA,M,D,W

Matrix	Cat. No.	Unit
100 µg/mL in Acetone	P-1045S-A	1 mL

Oryzalin

3,5-Dinitro-N₄,N₄-dipropylsulfanilamide

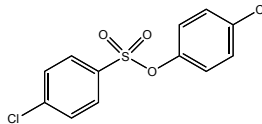
Surflan

CAS 19044-88-3 MF C₁₂H₁₈N₄O₆S MW 346.36
 PS S SG 1.20 g/cm³ MP 142 °C BP ~265 °C
 FP 265 °C SOL M,A,CN,MC,D

Matrix	Cat. No.	Unit
NEAT	P-043N	10 mg
100 µg/mL in MeOH	P-043S	1 mL
1000 µg/mL in MeOH	P-043S-10X	1 mL

Ovex

Benzenesulfonic acid,4-chloro-, 4-chlorophenyl ester



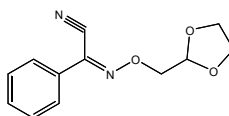
Chlorfenson

CAS 80-33-1 MF C₁₂H₈Cl₂O₃S MW 303.16 PS S
 SG 1.46 g/cm³ MP 86 °C BP 430 °C FP 214 °C
 SOL M,A,D,CN

Matrix	Cat. No.	Unit
NEAT	P-425N	10 mg
100 µg/mL in MeOH	P-425S	1 mL

Oxabetrinil

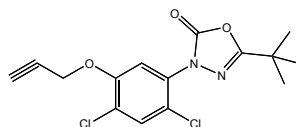
(αZ)-a-[(1,3-dioxolan-2-yl)methoxyimino] benzeneAcCN



CAS 74782-23-3 MF C₁₂H₁₂N₂O₃ MW 232.24 PS S
 SG 1.22 g/cm³ MP 78 °C BP 350 °C FP 165 °C
 SOL A,T,M,H,D

Matrix	Cat. No.	Unit
NEAT	P-995N	10 mg
100 µg/mL in MeOH	P-995S	1 mL

Oxadiargyl

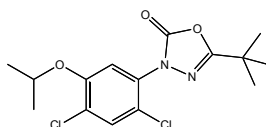


CAS 39807-15-3 MF C₁₅H₁₄Cl₂N₂O₃ MW 341.19
 PS S SG 1.41 g/cm³ MP 131 °C BP Decomp.
 SOL A,EA,T,M,CN,D

Matrix	Cat. No.	Unit
NEAT	P-1031N	10 mg
100 µg/mL in AcCN	P-1031S-CN	1 mL

Oxadiazon

2-tert-Butyl-3-(2,4-dichloro-5-isopropoxyphenyl)-1,3,4-oxadiazol-2(3H)-one

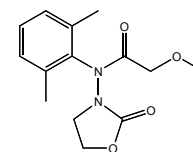


CAS 19666-30-9 MF C₁₅H₁₈Cl₂N₂O₃ MW 345.22
 PS S SG 1.31 g/cm³ MP 88-90 °C BP 417 °C
 FP 206 °C SOL M,A,D,H,CN,TP,EA,T

Matrix	Cat. No.	Unit
NEAT	P-236N	10 mg
100 µg/mL in MeOH	P-236S	1 mL
1000 µg/mL in MeOH	P-236S-10X	1 mL

Oxadixyl

2-Methoxy-N-(2-oxo-1,3-oxazolidin-3-yl)acet-2',6'-xylylidide

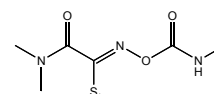


CAS 77732-09-3 MF C₁₄H₁₈N₂O₄ MW 278.3 PS S
 SG 1.26 g/cm³ MP 104 °C BP 368 °C FP 177 °C
 SOL M,A,T,CN,EA,DMSO,W

Matrix	Cat. No.	Unit
NEAT	P-560N	10 mg
100 µg/mL in MeOH	P-560S	1 mL

Oxamyl

S-Methyl N,N'-dimethyl-N-(methylcarbamoyloxy)-1-thio-oxamimidate



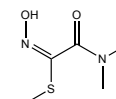
Vydate

CAS 23135-22-0 MF C₇H₁₃N₃O₃S MW 219.26
 PS S SG 0.97 g/cm³ MP 100 °C
 SOL M,A,D,H,CN,W,T

Matrix	Cat. No.	Unit
NEAT	P-161N	10 mg
100 µg/mL in MeOH	P-161S	1 mL

Oxamyl oxime

Methyl 2-(dimethylamino)-N-hydroxy-2-oxo-ethaneimidothioate

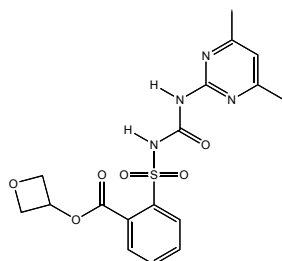


CAS 30558-43-1 MF C₅H₁₀N₂O₂S MW 162.21
 PS S SG 1.20 g/cm³ SOL M,CN MP 174-179 °C

Matrix	Cat. No.	Unit
100 µg/mL in AcCN	P-1138S-CN	1 mL

**Oxasulfuron**

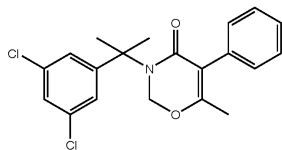
Oxetan-3-yl-2-[(4,6-dimethylpyrimidin-2-yl) carbamoylsulfamoyl]benzoate



Dynam

CAS 144651-06-9 **MF** C₁₇H₁₈N₄O₆S **MW** 406.41
PS S **SG** 1.49 g/cm³ **MP** 158 °C
SOL M,A,T,H,CN,EA,D

Matrix	Cat. No.	Unit
NEAT	P-859N	10 mg
100 µg/mL in AcCN	P-859S-CN	1 mL

Oxaziclomefone

CAS 153197-14-9 **MF** C₂₀H₁₉Cl₂NO₂ **MW** 376.28
PS S **SG** 1.28 g/cm³ **MP** 150 °C **BP** 520 °C
FP 267 °C **SOL** M,CN

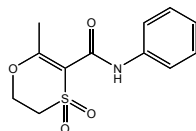
Matrix	Cat. No.	Unit
100 µg/mL in MeOH	P-1066S	1 mL

Oxazolidine, see *Furilazole*

2-Oxoimidazolidine, see *2-Imidazolidone*

Oxycarboxin

2,3-Dihydro-6-methyl-5-phenylcarbamoyl-1,4-oxathi-ine 4,4-dioxide



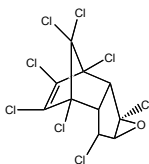
CAS 5259-88-1 **MF** C₁₂H₁₃NO₂S **MW** 267.3 **PS** S
SG 1.39 g/cm³ **MP** 127.5-130 °C **BP** 528 °C
FP 273 °C **SOL** M,CN,A,H,W

Matrix	Cat. No.	Unit
NEAT	P-391N	10 mg
100 µg/mL in MeOH	P-391S	1 mL

Oxychlorane, see *Oxychlorane Isomer*

Oxychlorane Isomer

1,2,4,5,6,7,8,8-octachloro-2,3-epoxy-3a,4,7,7a-tetrahydro-4,7-methanoindan



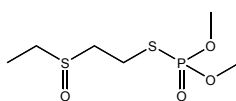
Oxychlorane

CAS 27304-13-8 **MF** C₁₀H₄Cl₈O **MW** 423.74 **PS** S
SG 1.97 g/cm³ **MP** 144 °C **BP** 442 °C **FP** 165 °C
SOL M,A,D,H,T,CN,TP,EA

Matrix	Cat. No.	Unit
10 µg/mL in MeOH	P-331S-0.1X	1 mL
100 µg/mL in MeOH	P-331S	1 mL
100 µg/mL in Hexane	P-331S-H	1 mL

Oxydemeton-methyl

S-2-Ethylsulfinylethyl
O,O-dimethyl phosphorothioate



MetaSystox-R

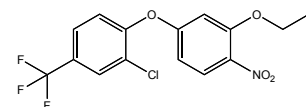
CAS 301-12-2 **MF** C₆H₁₅O₄PS₂ **MW** 246.3 **PS** L
SG 1.28 g/cm³ **MP** -10 °C **BP** 365 °C
SOL M,A,CN,H,T,W

Matrix	Cat. No.	Unit
100 µg/mL in MeOH	P-290S	1 mL

Oxydisulfoton, see *Disulfoton sulfoxide*

Oxyfluorfen

2-Chloro-alpha,alpha,alpha-trifluoro-p-tolyl
3-ethoxy-4-nitrophenyl ether



CAS 42874-03-3 **MF** C₁₅H₁₁ClF₃NO₄ **MW** 361.7
PS S **SG** 1.40 g/cm³ **MP** 83-84 °C
SOL M,A,D,H,T,CN,TP,EA

Matrix	Cat. No.	Unit
NEAT	P-277N	10 mg
100 µg/mL in MeOH	P-277S	1 mL

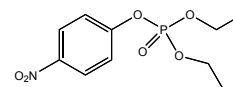
Oxythioquinox, see *Chinomethionate*

Paclobutrazol, see *Bonzi*

Pano-ram, see *Fenfuram*

Paraoxon

O,O-Diethyl O-p-nitrophenyl phosphate



Paraoxon-ethyl, Parathion oxon

CAS 311-45-5 **MF** C₁₀H₁₄NO₆P **MW** 275.2 **PS** L
SG 1.30 g/cm³ **BP** 345 °C **FP** 162 °C
SOL M,A,T,CN,TP

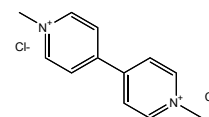
Matrix	Cat. No.	Unit
NEAT	P-453N	10 mg
100 µg/mL in MeOH	P-453S	1 mL
1000 µg/mL in MeOH	P-453S-10X	1 mL
100 µg/mL in Isooctane	P-453S-TP	1 mL

Paraoxon-ethyl, see *Paraoxon*

Paraoxon-methyl, see *Methyl paraoxon*

Paraquat dichloride tetrahydrate

1,1'-Dimethyl-4,4'-bipyridinium dichloride tetrahydrate



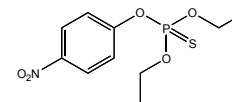
Methyl viologen dichloride hydrate

CAS 1910-42-5 **MF** C₁₂H₁₄N₂•2Cl **MW** 257.16 (anhydrous base) **PS** S **SG** 1.25 g/cm³ **MP** -340 °C
SOL A,T,EA,H,M,W

Matrix	Cat. No.	Unit
NEAT	P-051N	10 mg
100 µg/mL in MeOH	P-051S	1 mL

Parathion

O,O-Diethyl O-4-nitrophenyl phosphorothioate



Ethyl parathion, Thiophos

CAS 56-38-2 **MF** C₁₀H₁₄NO₅PS **MW** 291.26 **PS** L
SG 1.26 g/cm³ **MP** 6 °C **BP** 150 °C
SOL M,A,D,H,T,CN,TP,EA IPA

Matrix	Cat. No.	Unit
NEAT	P-070N	10 mg
100 µg/mL in MeOH	P-070S	1 mL
1000 µg/mL in MeOH	P-070S-10X	1 mL
1000 µg/mL in Hexane	P-070S-H-10X	1 mL

Parathion oxon, see *Paraoxon*

PCA, see *Pyrazon*

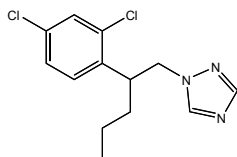
Pebulate, see *Tillam*



Pesticide Standards

Penconazole

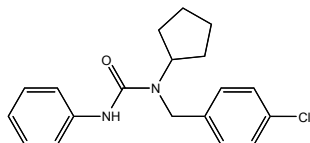
1-[2-(2,4-Dichlorophenyl)-n-pentyl]-1H-1,2,4-triazole

**CAS** 66246-88-6 **MF** C₁₃H₁₅Cl₂N₃ **MW** 284.18 **PS S**
SG 1.30 g/cm³ **MP** 61 °C **BP** >360 °C **FP** 100 °C
SOL M,A,H,T,CN,EA,D

Matrix	Cat. No.	Unit
NEAT	P-450N	10 mg
100 µg/mL in MeOH	P-450S	1 mL

Pencycuron

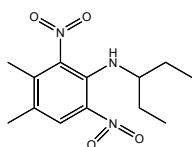
1-(4-chlorobenzyl)-1-cyclopentyl-3-phenylurea

**CAS** 66063-05-6 **MF** C₉H₁₁ClN₂O **MW** 328.84
PS S **SG** 1.22 g/cm³ **MP** 129 °C **BP** 528 °C
FP 273 °C **SOL** M,A,CN,EA,D

Matrix	Cat. No.	Unit
NEAT	P-358N	10 mg
100 µg/mL in MeOH	P-358S	1 mL

Pendimethalin

N-(1-Ethylpropyl)-2,6-dinitro-3,4-xylidine

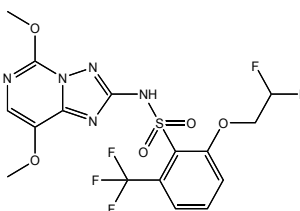
*Penoxalin, Prowl***CAS** 40487-42-1 **MF** C₁₃H₁₉N₃O₄ **MW** 281.31 **PS S**
SG 1.19 g/cm³ **MP** 56 °C **BP** 330 °C
SOL M,A,D,H,T,CN,TP,EA

Matrix	Cat. No.	Unit
NEAT	P-097N	10 mg
100 µg/mL in MeOH	P-097S	1 mL
1000 µg/mL in MeOH	P-097S-10X	1 mL

Penoxalin, see Pendimethalin

Penoxsulam

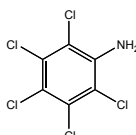
3-(2,2-difluoroethoxy)-N-(5,8-dimethoxy[1,2,4]triazolo[1,5-c]pyrimidin-2-yl)-a,a-trifluorotoluene-2-sulfonamide

**CAS** 219714-96-2 **MF** C₁₆H₁₄F₅N₅O₅ **MW** 483.37
PS S **SG** 1.61 g/cm³ **MP** 212 °C
BP Decomp. ~214 °C **SOL** A,M,CN

Matrix	Cat. No.	Unit
100 µg/mL in MeOH	P-1046S	1 mL

Pentachloroaniline

2,3,4,5,6-Pentachloroaniline



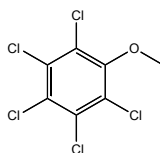
2,3,4,5,6-Pentachlorobenzenamine

CAS 527-20-8 **MF** C₆H₂Cl₅N **MW** 265.35 **PS S**
SG 1.75 g/cm³ **MP** 232-234 °C **BP** 336 °C
FP 157 °C **SOL** M,A,D,H,T,CN

Matrix	Cat. No.	Unit
NEAT	P-875N	10 mg
100 µg/mL in AcCN	P-875S-CN	1 mL

Pentachloroanisole

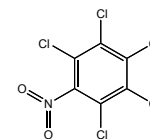
Pentachlorophenol methyl ether

**CAS** 1825-21-4 **MF** C₇H₃Cl₅O **MW** 280.36 **PS S**
SG 1.62 g/cm³ **MP** 108 °C **BP** 321 °C **FP** 127 °C
SOL M,A,D,H,CN,TP

Matrix	Cat. No.	Unit
NEAT	P-199N	10 mg
100 µg/mL in MeOH	P-199S	1 mL

2,3,4,5,6-Pentachlorobenzenamine,
see Pentachloroaniline

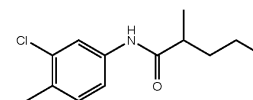
Pentachloronitrobenzene

*Folosan, Quintozene***CAS** 82-68-8 **MF** C₆Cl₅NO₂ **MW** 295.33 **PS S**
SG 1.72 g/cm³ **MP** 142-146 °C **BP** 328 °C
SOL M,A,D,H,CN,EA,T

Matrix	Cat. No.	Unit
NEAT	P-113N	10 mg
100 µg/mL in MeOH	P-113S	1 mL

Pentachlor

N-(3-chloro-4-methylphenyl)-2-methylpentanamide

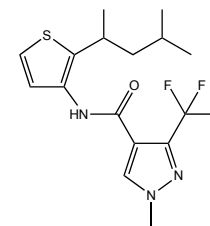
**CAS** 2307-68-8 **MF** C₁₃H₁₅ClNO **MW** 239.74 **PS S**
SG 1.11 g/cm³ **MP** 85-86 °C **BP** 376 °C **FP** 181 °C
SOL M

Matrix	Cat. No.	Unit
NEAT	P-1067N	10 mg
100 µg/mL in MeOH	P-1067S	1 mL

Pentanoic acid, phenyl ester, see Phenyl Valerate

Penthiopyrad

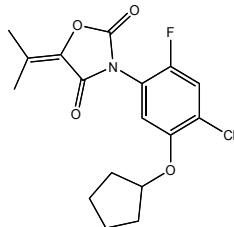
N-[2-(1,3-Dimethylbutyl)-3-thienyl]-1-methyl-3-(trifluoromethyl)-1H-pyrazole-4-carboxamide

**CAS** 183675-82-3 **MF** C₁₆H₂₀F₃N₃OS **MW** 359.41
PS S **MP** 108-109 °C **BP** Decomp. ~314 °C
SOL M,EA,T,A,CN

Matrix	Cat. No.	Unit
100 µg/mL in AcCN	P-1131S-CN	1 mL

**Pentoxazone**

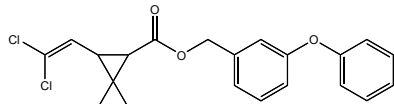
3-(4-chloro-5-cyclopentyloxy-2-fluorophenyl)-5-isopropylidene-1,3-oxazolidine-2,4-dione

CAS 110956-75-7 MF C₁₇H₁₇ClFNO₄ MW 353.77
PS S SG 1.42 g/cm³ MP 104 °C BP 463-464 °C
FP 234 °C SOL M,CN,H

Matrix	Cat. No.	Unit
10 µg/mL in MeOH	P-1051S-0.1X	1 mL
100 µg/mL in AcCN	P-1051S-CN	1 mL

*Percolate, see Imidan***Permethrin**

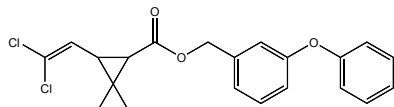
3-Phenoxybenzyl (1RS)-cis,trans-3-(2,2-dichlorovinyl)-2,2-dimethylcyclopropanecarboxylate

CAS 52645-53-1 MF C₂₁H₂₀Cl₂O₃ MW 391.29
PS S SG 1.29 g/cm³ MP 34 °C BP 200 °C
SOL M,A,D,H,T,CN,TP,EA

Matrix	Cat. No.	Unit
NEAT	P-128N	10 mg
100 µg/mL in MeOH	P-128S	1 mL

cis-Permethrin

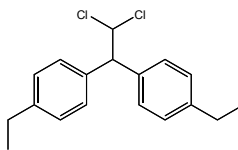
3-Phenoxybenzyl (1RS)-cis,trans-3-(2,2-dichlorovinyl)-2,2-dimethylcyclopropanecarboxylate

CAS 61949-76-6 MF C₂₁H₂₀Cl₂O₃ MW 391.29
PS S SG 1.29 g/cm³ MP 34 °C BP 200 °C
SOL M,A,D,TP

Matrix	Cat. No.	Unit
NEAT	P-185N	10 mg
100 µg/mL in MeOH	P-185S	1 mL

Perthane

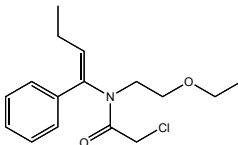
1,1-Dichloro-2,2-bis(p-ethylphenyl)ethane

*Ethylan*CAS 72-56-0 MF C₁₆H₂₀Cl₂ MW 307.26 PS S
SG 1.13 g/cm³ MP 60 °C FP >100 °C
SOL M,A,H,T,CN,TP,EA

Matrix	Cat. No.	Unit
NEAT	P-162N	10 mg
100 µg/mL in MeOH	P-162S	1 mL

Pethoxamid

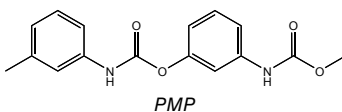
2-chloro-N-(2-ethoxyethyl)-N-(2-methyl-1-phenylprop-1-enyl)acetamide

CAS 106700-29-2 MF C₁₆H₂₂ClNO₂ MW 295.80
PS S SG 1.19 g/cm³ MP 37-38 °C FP 182 °C
SOL H,M,EA,A,W

Matrix	Cat. No.	Unit
NEAT	P-1047N	10 mg
100 µg/mL in MeOH	P-1047S	1 mL

*Phenamiphos, see Fenamiphos**Phencapton, see Carbophenothion***Phenmedipham**

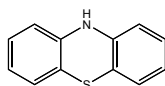
Methyl 3-(3-methylcarbaniloyloxy)carbanilate

*PMP*CAS 13684-63-4 MF C₁₆H₁₆N₂O₄ MW 300.31 PS S
SG 0.54 g/cm³ MP 143-144 °C
SOL M,A,CN,EA,T,D,H

Matrix	Cat. No.	Unit
NEAT	P-392N	10 mg
100 µg/mL in MeOH	P-392S	1 mL

Phenothiazine

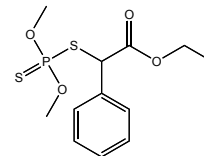
Dibenzo-p-thiazine

CAS 92-84-2 MF C₁₂H₉NS MW 199.27 PS S
SG 1.23 g/cm³ MP 182-187 °C BP 371 °C FP 178 °C
SOL M

Matrix	Cat. No.	Unit
NEAT	P-579N	10 mg
100 µg/mL in MeOH	P-579S	1 mL

*d-Phenothrin, see Sumithrin***Phenthoate**

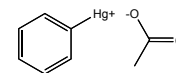
S-alpha-Ethoxycarbonylbenzyl O,O-dimethyl phosphorodithioate

CAS 2597-03-7 MF C₁₂H₁₇O₄PS₂ MW 320.37 PS L
SG 1.23 g/cm³ MP 17.5 °C FP 165-170 °C
SOL M,A,D,H,T,CN,EA

Matrix	Cat. No.	Unit
NEAT	P-476N	10 mg
100 µg/mL in MeOH	P-476S	1 mL

Phenyl mercury acetate

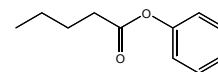
(acetato-O)phenylmercury (9Cl)

CAS 62-38-4 MF C₆H₅HgO₂ MW 336.74 PS S
MP 148 -151 °C SOL M,A,W

Matrix	Cat. No.	Unit
NEAT	P-393N	10 mg
100 µg/mL in MeOH	P-393S	1 mL

*Phenyl pentanoate, see Phenyl Valerate***Phenyl valerate**

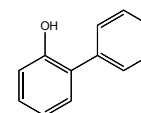
Valeric acid, phenyl ester

*Pentanoic acid, phenyl ester, Phenyl pentanoate*CAS 20115-23-5 MF C₁₁H₁₄O₂ MW 178.23 PS L
SG 1.01 g/cm³ BP 250 °C FP 95 °C SOL M

Matrix	Cat. No.	Unit
NEAT	P-734N	10 mg
100 µg/mL in MeOH	P-734S	1 mL

*2-Phenylphenol, see o-Phenylphenol***o-Phenylphenol**

2-Hydroxybiphenyl

*2-Phenylphenol*CAS 90-43-7 MF C₁₂H₁₀O MW 170.21 PS S
SG 1.24 g/cm³ MP 58 °C BP 284 °C FP 124 °C
SOL M,A,D,H,T,CN, EA,W

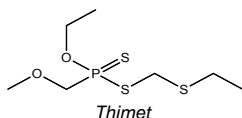
Matrix	Cat. No.	Unit
NEAT	P-460N	10 mg
100 µg/mL in MeOH	P-460S	1 mL



Pesticide Standards

Phorate

O,O-Diethyl S-ethylthiomethyl phosphorodithioate

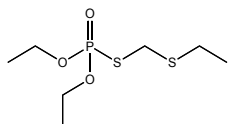


CAS 298-02-2 MF C₁₇H₁₇O₂PS₃ MW 260.38 PS L
 SG 1.17 g/cm³ MP <-15 °C BP 119 °C
 SOL M,A,D,H,T,CN,TP,EA

Matrix	Cat. No.	Unit
NEAT	P-170N	10 mg
100 µg/mL in MeOH	P-170S	1 mL
1000 µg/mL in MeOH	P-170S-10X	1 mL

Phorate-oxon

o,o-Diethyls-ethylthiomethylphosphorothioate

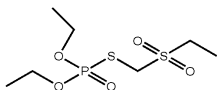


CAS 2600-69-3 MF C₇H₁₇O₃PS₂ MW 244.31 PS L
 SG 1.17 g/cm³ BP 284-285 °C FP 126 °C
 SOL T,CN,M

Matrix	Cat. No.	Unit
10 µg/mL in Toluene	P-1018S-T-0.1X	1 mL

Phorate-oxon sulfone

O,O-Diethyl S-[(ethylsulfonyl)methyl] phosphorothioate

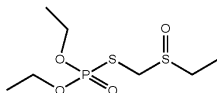


CAS 2588-06-9 MF C₇H₁₇O₃PS₂ MW 276.31 PS L
 SG 1.23 g/cm³ BP 390 °C FP 190 °C
 SOL CN,M

Matrix	Cat. No.	Unit
100 µg/mL in AcCN	P-1161S-CN	1 mL

Phorate-oxon sulfoxide

O,O-Diethyl S-[(ethylsulfinyl)methyl] phosphorothioate

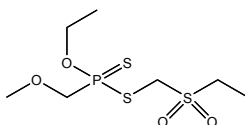


CAS 2588-05-8 MF C₇H₁₇O₃PS₂ MW 260.31 PS L
 SG 1.27 g/cm³ BP 365-366 °C FP 180 °C
 SOL CN,M

Matrix	Cat. No.	Unit
100 µg/mL in AcCN	P-1153S-CN	1 mL

Phorate sulfone

O,O-Diethyl-S-ethylsulfonylmethyl phosphorodithioate

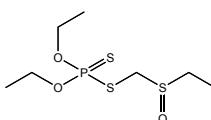


CAS 2588-04-7 MF C₇H₁₇O₄PS₃ MW 292.38 PS L
 SG 1.31 g/cm³ BP 397 °C FP 194 °C
 SOL M,A,H,T,CN,TP

Matrix	Cat. No.	Unit
100 µg/mL in Hexane	P-655S-H	1 mL

Phorate sulfoxide

Phosphorodithioic acid, O,O-diethyl S-(ethylsulfinyl) methyl ester

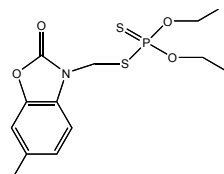


CAS 2588-03-6 MF C₇H₁₇O₃PS₂ MW 276.38
 SOL M,T,CN

Matrix	Cat. No.	Unit
NEAT	P-732N	10 mg
100 µg/mL in MeOH	P-732S	1 mL

Phosalone

S-6-Chloro-2,3-dihydro-2-oxobenzoxazol-3-ylmethyl O,O-diethyl phosphorodithioate



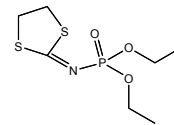
CAS 2310-17-0 MF C₁₂H₁₆ClNO₄PS₂ MW 367.81
 PS S SG 1.34 g/cm³ MP 42-48 °C FP 100 °C
 SOL M,A,D,H,T,CN,TP,EA

Matrix	Cat. No.	Unit
NEAT	P-163N	10 mg
100 µg/mL in MeOH	P-163S	1 mL

Phosdrin, see Mevinphos

Phosfolan

(Diethoxyphosphinyl)dithioimidocarbonic acid cyclic ethylene ester



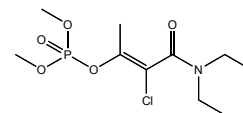
CAS 947-02-4 MF C₇H₁₄NO₃PS₂ MW 255.3 PS S
 SG 1.42 g/cm³ MP 37-45 °C BP 339 °C FP 159 °C
 SOL M,A,D,H

Matrix	Cat. No.	Unit
NEAT	P-234N	10 mg
100 µg/mL in MeOH	P-234S	1 mL
1000 µg/mL in MeOH	P-234S-10X	1 mL
1000 µg/mL in Acetone	P-234S-A-10X	1 mL

Phosmet, see Imidan

Phosphamidon

2-Chloro-2-diethylcarbamoyl-1-methylvinyl dimethyl phosphate



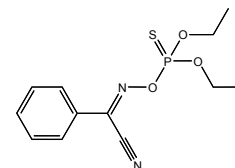
CAS 13171-21-6 MF C₁₀H₁₆ClNO₅P MW 299.69
 PS L SG 1.21 g/cm³ MP -45 °C BP 120 °C
 SOL M,A,D,H,T,CN,EA

Matrix	Cat. No.	Unit
NEAT	P-075N	10 mg
100 µg/mL in MeOH	P-075S	1 mL

*Phosphothion, see Malathion**Phosvel, see Leptophos**Phosvin, see Zinc phosphide*

Phoxim

O,O-diethyl alpha-cyanobenzylideneamino-phosphorothioate



CAS 14816-18-3 MF C₁₂H₁₅N₂O₃PS MW 298.3
 PS L SG 1.21 g/cm³ BP 362 °C FP 173 °C
 SOL M,A,CN,D,DMSO

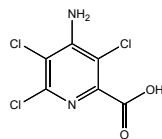
Matrix	Cat. No.	Unit
NEAT	P-357N	10 mg
100 µg/mL in MeOH	P-357S	1 mL

Phthalide, see 1-Isobenzofuranone



Picloram

4-Amino-3,5,6-trichloro-2-picolinic acid



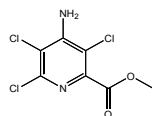
ATCP, Tordon

CAS 1918-02-1 MF C₆H₃Cl₃N₂O₂ MW 241.46 PS S
SG 0.85 g/cm³ MP -215 °C SOL M,A,D,H,T,CN,W

Matrix	Cat. No.	Unit
NEAT	P-047N	10 mg
100 µg/mL in MeOH	P-047S ▲	1 mL
1000 µg/mL in MeOH	P-047S-10X▲	1 mL

Picloram methyl ester

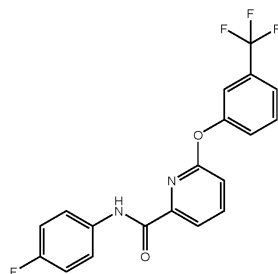
4-Amino-3,5,6-trichloropyridine-2-carboxylic acid methyl ester

CAS 14143-55-6 MF C₇H₃Cl₃N₂O₂ MW 255.48
PS S SG 1.61 g/cm³ BP 395 °C FP 192 °C
SOL M,A,D,H,TP

Matrix	Cat. No.	Unit
NEAT	P-198N	10 mg
100 µg/mL in MeOH	P-198S	1 mL

Picolinafen

N-(4-fluorophenyl)-6-[3-(trifluoromethyl)phenoxy]pyridine-2-carboxamide

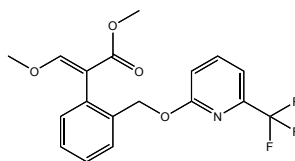
CAS 137641-05-5 MF C₁₉H₁₂F₄N₂O₂ MW 376.30
PS S SG 1.45 g/cm³ MP 107-108 °C
BP Decomp. ~230 °C SOL M,CN,A,EA,T,D

Matrix	Cat. No.	Unit
NEAT	P-1061N	10 mg
100 µg/mL in MeOH	P-1061S	1 mL

▲ Pesticides containing a carboxyl group may autoesterify in Methanol. These standards are intended for use after making the methyl derivative. For analysis of the parent compound we suggest a non-hydroxylic solvent such as Acetonitrile.

Picoxystrobin

Methyl-(E)-3-methoxy-2-[2-[6-(trifluoromethyl)-2-pyridyloxymethyl]phenyl]acrylate

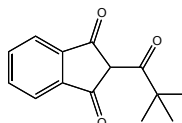
CAS 117428-22-5 MF C₁₈H₁₆F₃NO₄ MW 367.32
PS S SG 1.40 g/cm³ MP 75 °C
SOL A,T,CN,M,EA

Matrix	Cat. No.	Unit
NEAT	P-860N	10 mg
100 µg/mL in AcCN	P-860S-CN	1 mL

Pimeton, see Simeton

Pindone

2-(Trimethylacetyl)-1,3-indandione



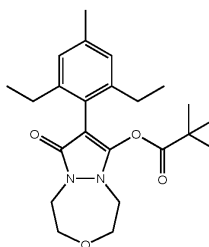
Pival

CAS 83-26-1 MF C₁₄H₁₄O₃ MW 230.26 PS S
SG 1.06 g/cm³ MP 155-156 °C SOL M

Matrix	Cat. No.	Unit
NEAT	P-394N	10 mg
100 µg/mL in MeOH	P-394S	1 mL

Pinoxaden

[8-(2,6-diethyl-4-methylphenyl)-7-oxo-1,2,4,5-tetrahydropyrazolo[1,2-d][1,4,5]oxadiazepin-9-yl] 2,2-dimethylpropanoate



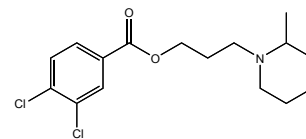
Axial

CAS 243973-20-8 MF C₂₃H₃₂N₂O₄ MW 400.51
PS S SG 1.25 g/cm³ MP 120-122 °C
BP Decomp. 335 °C FP >200 °C SOL A,D,H,T,M,CN

Matrix	Cat. No.	Unit
NEAT	P-1154N	10 mg
100 µg/mL in AcCN	P-1154S-CN	1 mL

Piperalin

3-(2-Methylpiperidino)propyl 3,4-dichlorobenzoate



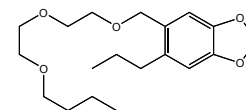
Pipron

CAS 3478-94-2 MF C₁₆H₂₁Cl₂NO₂ MW 330.25
PS L SG 1.19 g/cm³ BP 156-157 °C SOL M

Matrix	Cat. No.	Unit
NEAT	P-663N	10 mg
100 µg/mL in MeOH	P-663S	1 mL

Piperonyl butoxide

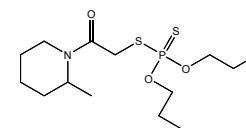
5-[2-(2-Butoxyethoxy)ethoxymethyl]-6-propyl-1,3-benzodioxole

CAS 51-03-6 MF C₁₉H₃₀O₅ MW 338.44 PS L
SG 1.06 g/cm³ BP 180 °C FP 171 °C
SOL M,A,D,H,T,CN,EA

Matrix	Cat. No.	Unit
NEAT	P-348N	10 mg
100 µg/mL in MeOH	P-348S	1 mL

Piperophos

S-2-methylpiperdinocarbonylmethyl O,O-dipropyl phosphorothioate



Rilof

CAS 24151-93-7 MF C₁₄H₂₈NO₃PS₂ MW 353.48
PS L SG 1.15 g/cm³ BP 445 °C FP 223 °C
SOL M,A,D,H

Matrix	Cat. No.	Unit
NEAT	P-656N	10 mg

Pipron, see Piperalin

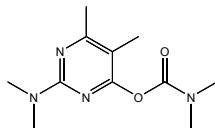
Pirate, see Chlorfenapyr



Pesticide Standards

Pirimicarb

2-Dimethylamino-5,6-dimethylpyrimidin-4-yl dimethylcarbamate



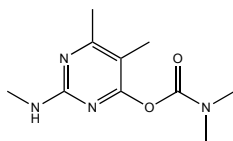
Pirimor

CAS 23103-98-2 MF C₁₁H₁₈N₄O₂ MW 238.29 PS S
SG 1.18 g/cm³ MP 92 °C FP >100 °C
SOL M,A,D,H,T,CN,TP,EA

Matrix	Cat. No.	Unit
NEAT	P-304N	10 mg
100 µg/mL in MeOH	P-304S	1 mL

Pirimicarb-desmethyl

N,N-dimethylcarbamic acid [5,6-dimethyl-2-(methylamino)-4-pyrimidinyl] ester

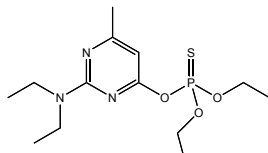


CAS 30614-22-3 MF C₁₀H₁₆N₄O₂ MW 224.26 PS S
SG 1.18 g/cm³ MP 112-115 °C BP 377-378 °C
FP 182 °C SOL CN,M

Matrix	Cat. No.	Unit
100 µg/mL in AcCN	P-1139S-CN	1 mL

Pirimiphos-ethyl

O-2-Diethylamino-6-methylpyrimidin-4-yl O,O-diethyl phosphorothioate

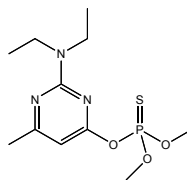


CAS 23505-41-1 MF C₁₃H₂₄N₄O₃PS MW 333.39
PS L SG 1.14 g/cm³ BP 130 °C
SOL M,A,D,H,T,CN,TP,EA

Matrix	Cat. No.	Unit
NEAT	P-328N	10 mg
100 µg/mL in MeOH	P-328S	1 mL

Pirimiphos-methyl

O-2-Diethylamino-6-methylpyrimidin-4-yl O,O-dimethyl phosphorothioate



CAS 29232-93-7 MF C₁₁H₂₀N₄O₃PS MW 305.37
PS L SG 1.17 g/cm³ MP 16 °C
SOL M,A,D,H,T,CN,TP,EA

Matrix	Cat. No.	Unit
NEAT	P-305N	10 mg
100 µg/mL in MeOH	P-305S	1 mL

Pirimor, see *Pirimicarb*

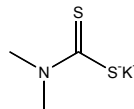
Pival, see *Pindone*

Pledge, see *Flumioxazin*

PMP, see *Phenmedipham*

Polytrin, see *Cypermethrin*

Potassium dimethyl dithiocarbamate

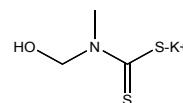


Busan 85

CAS 128-03-0 MF C₃H₆KNS₂ MW 159.32 PS L
SG 1.22 g/cm³ BP 129 °C SOL CN

Matrix	Cat. No.	Unit
100 µg/mL in AcCN	P-714S-CN	1 mL

Potassium n-hydroxymethyl-n-methyl dithiocarbamate



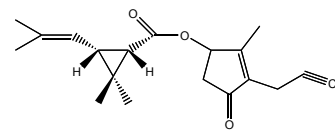
Busan 40

CAS 51026-28-9 MF C₃H₆KNOS₂ MW 175.32
PS L SG 1.19 g/cm³ BP 207 °C FP 79 °C SOL CN

Matrix	Cat. No.	Unit
100 µg/mL in AcCN	P-715S-CN	1 mL

Prallethrin

2-Methyl-4-oxo-3-(prop-2-ynyl)cycloprop-2-en-1-yl 2,2-dimethyl-3-(2-methylprop-1-enyl) cyclopropanecarboxylate



Etoc

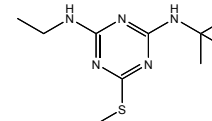
CAS 23031-36-9 MFC₁₉H₂₄O₃ MW 300.39 PS S
SG 1.08 g/cm³ MP 140 °C BP 390 °C FP 168 °C
SOL M,A,CN,H

Matrix	Cat. No.	Unit
100 µg/mL in MeOH	P-667S	1 mL

Pramitol, see *Prometon*

Prebane

2-tert-Butylamino-4-ethylamino-6-methylthio-1,3,5-triazine



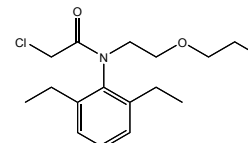
Igran, Terbutryne

CAS 886-50-0 MF C₁₀H₁₉N₅S MW 241.36 PS S
SG 1.12 g/cm³ MP 105 °C BP 274 °C
SOL M,A,D,T,CN,TP,EA,H

Matrix	Cat. No.	Unit
NEAT	P-119N	10 mg
100 µg/mL in MeOH	P-119S	1 mL

Pretilachlor

2-Chloro-2',6'-diethyl-N-(2-propoxyethyl)acetanilide



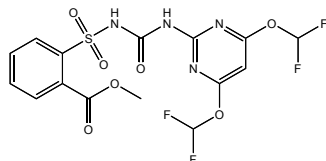
CAS 51218-49-6 MFC₁₇H₂₆ClNO₂ MW 311.85
PS L SG 1.07 g/cm³ BP 442 °C FP 221 °C
SOL M,A,CN,H,D

Matrix	Cat. No.	Unit
NEAT	P-485N	10 mg
100 µg/mL in MeOH	P-485S	1 mL



Primisulfuron-methyl

3-(4,6-bis(Difluoromethoxy)pyrimidin-2-yl)-1-(2-methoxycarbonylphenylsulfonyl)urea



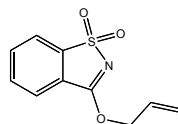
Beacon

CAS 86209-51-0 MF C₁₅H₁₂F₄N₄O₇S MW 468.34
PS S SG 1.61 g/cm³ MP 196 °C
SOL CN,A,T,H

Matrix	Cat. No.	Unit
NEAT	P-833N	10 mg
100 µg/mL in AcCN	P-833S-CN	1 mL

Probenazole

3-Allyloxy-1,2-benz[d]isothiazole 1,1-dioxide

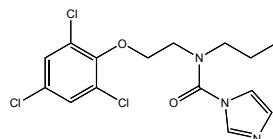


CAS 27605-76-1 MFC₁₀H₉NO₃S MW 223.25 PS S
SG 1.33 g/cm³ MP 138 °C BP 369 °C FP 177 °C
SOL A,CN

Matrix	Cat. No.	Unit
NEAT	P-710N	10 mg
100 µg/mL in Acetone	P-710S-A	1 mL

Prochloraz

N-Propyl-N-(2,4,6-trichlorophenoxy)ethyl-imidazole-1-carboxamide



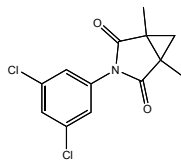
CAS 67747-09-5 MF C₁₅H₁₆Cl₃N₃O₂ MW 376.66
PS S SG 1.37 g/cm³ MP 46.5-49.3 °C BP 500 °C
FP 256 °C SOL M,A,D,H,T,CN,EA,DMSO,IPA

Matrix	Cat. No.	Unit
NEAT	P-549N	10 mg
100 µg/mL in MeOH	P-549S	1 mL

Proconazole, see Tilt

Procymidone

N-(3,5-Dichlorophenyl)-1,2-dimethylcyclopropane-1,2-dicarboximide

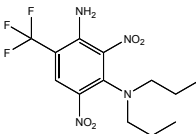


CAS 32809-16-8 MF C₁₃H₁₁Cl₂NO₂ MW 284.14
PS S SG 1.50 g/cm³ MP 164-166 °C BP 478 °C
FP 243 °C SOL M,A,D,H,T,CN,TP,EA

Matrix	Cat. No.	Unit
NEAT	P-430N	10 mg
100 µg/mL in MeOH	P-430S	1 mL

Prodiamine

2-Dipropylamino-alpha,alpha,alpha-trifluoro-4,6-dinitro-o-toluidine

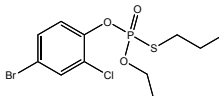


CAS 29091-21-2 MF C₁₃H₁₇F₃N₃O₄ MW 350.29
PS S SG 1.38 g/cm³ MP 124 °C BP 433 °C
FP 216 °C SOL M,A,IPA

Matrix	Cat. No.	Unit
NEAT	P-739N	10 mg
100 µg/mL in MeOH	P-739S	1 mL

Profenofos

O-4-Bromo-2-chlorophenyl O-ethyl S-propyl phosphorothioate

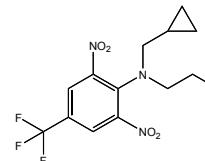


CAS 41198-08-7 MF C₁₁H₁₅BrClO₃PS MW 373.63
PS L SG 1.46 g/cm³ BP 110 °C FP 100 °C
SOL M,A,D,H,T,CN,TP,EA

Matrix	Cat. No.	Unit
NEAT	P-260N	10 mg
100 µg/mL in MeOH	P-260S	1 mL

Profluralin

N-(cyclopropylmethyl)-alpha,alpha,alpha-trifluoro-2,6-dinitro-N-propyl-p-toluidine



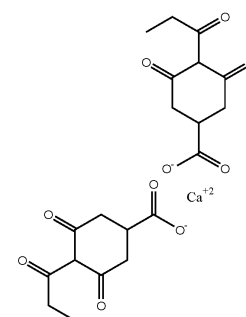
Tolban

CAS 26399-36-0 MF C₁₄H₁₆F₃N₃O₄ MW 347.29
PS L,S SG 1.41 g/cm³ MP 32-33 °C BP 393 °C
FP 192 °C SOL M,A,D,CN,TP,EA

Matrix	Cat. No.	Unit
NEAT	P-099N	10 mg
100 µg/mL in MeOH	P-099S	1 mL
1000 µg/mL in MeOH	P-099S-10X	1 mL

Prohexadione-calcium

Calcium 3-oxido-5-oxo-4-propionylcyclohex-3-enecarboxylate

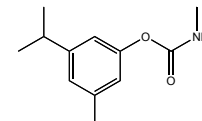


CAS 127277-53-6 MF C₂₀H₂₂CaO₁₀ MW 462.46
PS S SG 1.46 g/cm³ MP 360 °C BP 455 °C
SOL H,EA,M,A

Matrix	Cat. No.	Unit
NEAT	P-1068N	10 mg

Promecarb

3-Isopropyl-5-methylphenyl methylcarbamate



CAS 2631-37-0 MF C₁₂H₁₇NO₂ MW 207.27 PS S
SG 1.02 g/cm³ MP 117 °C BP 282 °C FP 124 °C
SOL M,A,CN

Matrix	Cat. No.	Unit
NEAT	P-265N	10 mg
100 µg/mL in MeOH	P-265S	1 mL

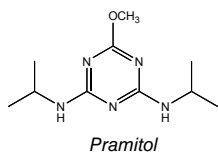
Promet, see Furathiocarb



Pesticide Standards

Prometon

6-methoxy-N,N'-bis(1-methylethyl)-1,3,5-triazine-2,4-diamine



Pramitol

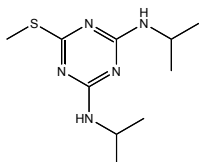
CAS 1610-18-0 **MF** C₁₀H₁₉N₅O **MW** 225.34 **PS** S
SG 1.09 g/cm³ **MP** 91-92 °C
SOL M,A,D,H,T,CN,TP,EA

Matrix	Cat. No.	Unit
NEAT	P-077N	10 mg
100 µg/mL in MeOH	P-077S	1 mL

Prometrin, see Prometryne

Prometryne

2-Methylthio-4,6-bis(isopropyl amino)-1,3,5-triazine



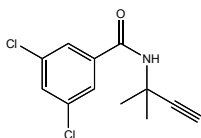
Prometrin

CAS 7287-19-6 **MF** C₁₀H₁₉N₅S **MW** 241.36 **PS** S
SG 1.15 g/cm³ **MP** 119 °C **BP** >300 °C
SOL M,A,D,H,T,CN,TP,EA

Matrix	Cat. No.	Unit
NEAT	P-078N	10 mg
100 µg/mL in MeOH	P-078S	1 mL

Pronamide

3,5-Dichloro-N-(1,1-dimethylpropynyl)benzamide



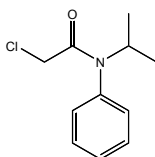
Kerb, Propyzamide

CAS 23950-58-5 **MF** C₁₂H₁₁Cl₂NO **MW** 256.13
PS S **SG** 1.26 g/cm³ **MP** 155-156 °C **BP** 341 °C
FP 160 °C **SOL** M,A,D,H,T,CN,EA

Matrix	Cat. No.	Unit
NEAT	P-164N	10 mg
100 µg/mL in MeOH	P-164S	1 mL

Propachlor

2-Chloro-N-isopropylacetanilide



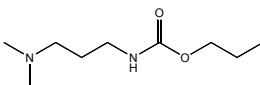
Ramrod

CAS 1918-16-7 **MF** C₁₁H₁₄ClNO **MW** 211.69
PS S **SG** 1.13 g/cm³ **MP** 77 °C **BP** 110 °C
FP 174 °C **SOL** M,A,D,H,T,CN,TP,EA

Matrix	Cat. No.	Unit
NEAT	P-215N	10 mg
100 µg/mL in MeOH	P-215S	1 mL
1000 µg/mL in MeOH	P-215S-10X	1 mL

Propamocarb

Propyl 3-(dimethylamino)propylcarbamate

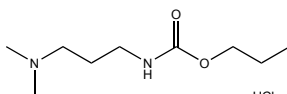


CAS 24579-73-5 **MF** C₉H₂₀N₂O₂ **MW** 188.27 **PS** L
SG 0.96 g/cm³ **MP** 45-55 °C **BP** 272 °C **FP** 118 °C
SOL M,A,D,T,CN,EA,H

Matrix	Cat. No.	Unit
NEAT	P-312N	10 mg
100 µg/mL in MeOH	P-312S	1 mL

Propamocarb hydrochloride

Propyl 3-(dimethylamino)propylcarbamate hydrochloride



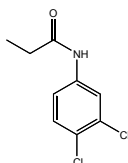
HCl

CAS 25606-41-1 **MF** C₉H₂₁ClN₂O₂ **MW** 224.73
PS S **SG** 1.16 g/cm³ **MP** 64-65 °C
BP Decomp. ~150 °C **SOL** M,CN,A,D,EA,T,H

Matrix	Cat. No.	Unit
100 µg/mL in AcCN	P-1137S-CN	1 mL

Propanil

3',4'-Dichloropropionanilide



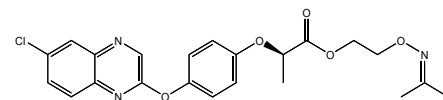
3,4-DCPA

CAS 709-98-8 **MF** C₉H₉Cl₂NO **MW** 218.08 **PS** S
SG 1.41 g/cm³ **MP** 92-93 °C **BP** 351 °C
SOL M,A,D,H,CN,EA,T,IPA

Matrix	Cat. No.	Unit
NEAT	P-049N	10 mg
100 µg/mL in MeOH	P-049S	1 mL

Propaquizafop

2-Isopropylideneaminoxyethyl (R)-2-[4-(6-chloroquinoxalin-2-yl)oxy]phenyl]propionate

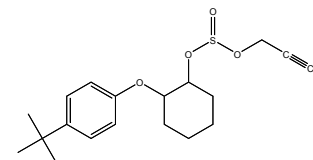


CAS 111479-05-1 **MF** C₂₂H₂₂ClN₂O₅ **MW** 443.88 **PS** S
SG 0.96 g/cm³ **MP** 66-67 °C **BP** Decomp. ~260 °C
FP >200 °C **SOL** A,M,T,CN,D,EA,H

Matrix	Cat. No.	Unit
NEAT	P-908N	10 mg
100 µg/mL in MeOH	P-908S	1 mL

Propargite

2-(4-tert-Butylphenoxy)cyclohexyl prop-2-ynyl sulfite



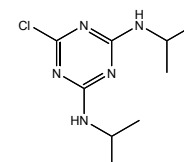
Omite

CAS 2312-35-8 **MF** C₁₉H₂₆O₄S **MW** 350.47 **PS** L
SG 1.17 g/cm³ **BP** 451 °C **FP** 226 °C
SOL M,A,D,H,T,CN,TP,EA

Matrix	Cat. No.	Unit
NEAT	P-251N	10 mg
100 µg/mL in MeOH	P-251S	1 mL

Propazine

6-Chloro-N,N'-bis(1-methylethyl)-1,3,5-triazine-2,4-diamine



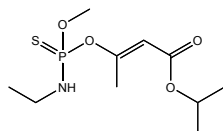
Prozinex

CAS 139-40-2 **MF** C₉H₁₆ClN₅ **MW** 229.71 **PS** S
SG 1.16 g/cm³ **MP** 213 °C
SOL M,A,D,H,T,CN,TP,EA

Matrix	Cat. No.	Unit
NEAT	P-079N	10 mg
100 µg/mL in MeOH	P-079S	1 mL

**Propetamphos**

(E)-O-2-Isopropoxycarbonyl-1-methylvinyl
O-methyl ethylphosphoramidothioate



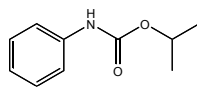
Safrotin

CAS 31218-83-4 MF C₁₀H₂₀NO₂PS MW 281.31
PS L SG 1.13 g/cm³ BP 87-89 °C
SOL M,A,D,H,T,CN,TP,EA,DMSO

Matrix	Cat. No.	Unit
NEAT	P-417N	10 mg
100 µg/mL in MeOH	P-417S	1 mL

Propham

1-methylethylphenyl carbamate



IPC

CAS 122-42-9 MF C₁₀H₁₃NO₂ MW 179.22 PS S
SG 1.09 g/cm³ MP 90 °C BP 272 °C
SOL M,A,H,CN,EA,W

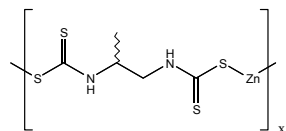
Matrix	Cat. No.	Unit
NEAT	P-052N	10 mg
100 µg/mL in MeOH	P-052S	1 mL

Prophos, see *Ethoprop*

Propiconazole, see *Tilt*

Propineb

[[[(1-Methyl-1,2-ethanediy)]bis[carbomodithioato]]
(2-)]zinc



Zinc propylenebis(dithiocarbamate)

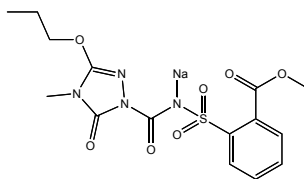
CAS 12071-83-9 MF (C₅H₈N₂S₄Zn)_x MW (689.78)_x
PS S SG 1.81 g/cm³ BP >150 °C
SOL T,A,D,CN,DMSO

Matrix	Cat. No.	Unit
NEAT	P-608N	10 mg

Propoxur, see *Baygon*

Propoxycarbazone-sodium salt

2-[(4-Methyl-5-oxo-3-propoxy-1,2,4-triazolin-1-yl)carbamidosulfonyl]benzoic acid methyl ester sodium salt



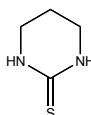
CAS 181274-15-7 MF C₁₅H₁₇N₄NaO₇S MW 420.37
PS S SG 1.42 g/cm³ MP 230 °C BP Decomp.
SOL A,D,M,W

Matrix	Cat. No.	Unit
NEAT	P-1014N	10 mg
50 µg/mL in Water	P-1014S-W-0.5X	1 mL

Propylene thiourea, see *Propylenethiourea (PTU)*

Propylenethiourea (PTU)

4-Methylimidazolidine-2-thione



Propylene thiourea

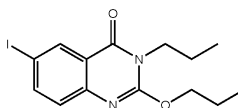
CAS 2055-46-1 MF C₄H₈N₂S MW 116.19 PS S
SG 1.20 g/cm³ MP 210-212 °C SOL CN,EA

Matrix	Cat. No.	Unit
NEAT	P-861N	10 mg
100 µg/mL in AcCN	P-861S-CN	1 mL

Propyzamide, see *Pronamide*

Proquinazid

6-Iodo-2-propoxy-3-propyl-4(3H)quinazolinone

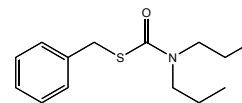


CAS 189278-12-4 MF C₁₄H₁₇IN₂O₂ MW 372.20
PS S SG 1.57 g/cm³ MP 61-62 °C SOL CN

Matrix	Cat. No.	Unit
100 µg/mL in AcCN	P-1156S-CN	1 mL

Prosulfocarb

S-Benzyl dipropylthiocarbamate

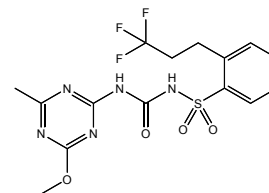


CAS 52888-80-9 MF C₁₄H₂₁NOS MW 251.39 PS L
SG 1.05 g/cm³ BP 353 °C FP 167 °C
SOL A,EA,M,T,CN

Matrix	Cat. No.	Unit
NEAT	P-742N	10 mg
100 µg/mL in MeOH	P-742S	1 mL

Prosulfuron

1-(4-methoxy-6-methyl-1,3,5-triazin-2-yl)-
3-[2-(3,3,3-trifluoropropyl)]

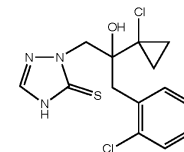


CAS 94125-34-5 MF C₁₅H₁₆F₃N₃O₂S MW 419.38
PS S SG 1.45 g/cm³ MP ~155 °C
SOL A,T,EA,CN,M,H,D

Matrix	Cat. No.	Unit
NEAT	P-834N	10 mg
100 µg/mL in AcCN	P-834S-CN	1 mL

Prothioconazole

2-[2-(1-Chlorocyclopropyl)-3-(2-chlorophenyl)-2-hydroxypropyl]-1,2-dihydro-3H-1,2,4-triazole-3-thione



CAS 178928-70-6 MF C₁₄H₁₆Cl₂N₃OS MW 344.26
PS S SG 1.36 g/cm³ FP >200 °C
SOL A,EA,M,CN,DMSO,IPA

Matrix	Cat. No.	Unit
100 µg/mL in AcCN	P-965S-CN	1 mL

Prothiofos, see *Tokuthion*

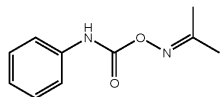
Prowl, see *Pendimethalin*



Pesticide Standards

Proxipham

2-Propanone,O-[(phenylamino)carbonyl]oxime



CAS 2828-42-4 **MF** C₁₀H₁₂N₂O₂ **MW** 192.21
PS S SG 1.09 g/cm³ **MP** 43-44 °C
SOL M,A,T

Matrix	Cat. No.	Unit
NEAT	P-1081N	10 mg
100 µg/mL in MeOH	P-1081S	1 mL

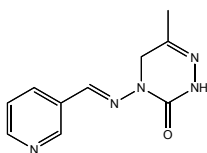
Prozinex, see Propazine

Pydrin, see Fenvalerate

Pymetrozin, see Pymetrozine

Pymetrozine

(E)-4,5-Dihydro-6-methyl-4-((3-pyridinylmethylene)amino)-1,2,4-triazin-3(2H)-one



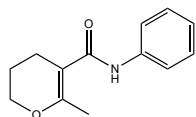
Pymetrozin

CAS 123312-89-0 **MF** C₁₀H₁₁N₅O **MW** 217.23 **PS S**
SG 1.36 g/cm³ **MP** 217 °C **FP** >230 °C
SOL H,T,A,EA,CN,W

Matrix	Cat. No.	Unit
NEAT	P-835N	10 mg
100 µg/mL in AcCN	P-835S-CN	1 mL

Pyracarbolid

3,4-Dihydro-6-methyl-2H-pyran-5-carboxanilide

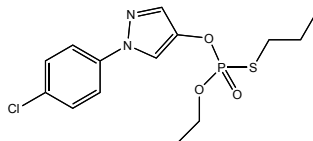


CAS 24691-76-7 **MF** C₁₅H₁₅NO₂ **MW** 217.26 **PS S**
SG 1.17 g/cm³ **MP** 143-144 °C **BP** 392 °C
FP 191 °C **SOL** M,CN,EA

Matrix	Cat. No.	Unit
100 µg/mL in AcCN	P-792S-CN	1 mL

Pyraclufos

O-[1-(4-Chlorophenyl)-1H-pyrazol-4-yl]
O-ethyl S-propyl phosphorothioate



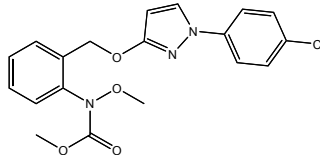
Boltage, Starlex, Voltage

CAS 77458-01-6 **MF** C₁₄H₁₈ClN₂O₃PS **MW** 360.8
PS S SG 1.33 g/cm³ **MP** 88-89 °C **BP** 454 °C
FP 228 °C **SOL** M,A,T,CN

Matrix	Cat. No.	Unit
100 µg/mL in MeOH	P-716S	1 mL

Pyraclostrobin

Methyl-[(2-[1-(4-chlorophenyl)-1H-pyrazol-3-yloxy]methyl]phenyl]methoxycarbamate

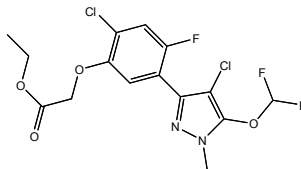


CAS 175013-18-0 **MF** C₁₉H₁₆ClN₃O₄ **MW** 387.82
PS S SG 1.27 g/cm³ **MP** 58-63 °C **BP** 501 °C
FP 257 °C **SOL** M,A,D,T,CN,EA,IPA

Matrix	Cat. No.	Unit
NEAT	P-863N	10 mg
100 µg/mL in AcCN	P-863S-CN	1 mL

Pyraflufen-ethyl

Ethyl [2-chloro-5-(4-chloro-5-difluoromethoxy-1-methylpyrazol-3-yl)-4-fluorophenoxy]acetate



CAS 129630-19-9 **MF** C₁₅H₁₃Cl₂F₂N₃O₄ **MW** 413.18
PS S SG 1.64 g/cm³ **MP** 126-127 °C **FP** 237 °C
SOL M,A,EA,CN,H,D

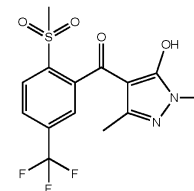
Matrix	Cat. No.	Unit
NEAT	P-1015N	10 mg
100 µg/mL in Acetone	P-1015S-A	1 mL

Pyramite, see Pyridaben

Pyranica, see Tebufenpyrad

Pyrasulfotole

(5-Hydroxy-1,3-dimethyl-1H-pyrazol-4-yl)[2-(methylsulfonyl)-4-(trifluoromethyl)phenyl]methanone

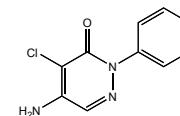


CAS 365400-11-9 **MF** C₁₄H₁₃F₃N₂O₄S **MW** 362.32
PS S SG 1.50 g/cm³ **MP** 201 °C
SOL T,EA,A,CN,W,DMSO

Matrix	Cat. No.	Unit
100 µg/mL in AcCN	P-1144S-CN	1 mL

Pyrazon

5-Amino-4-chloro-2-phenylpyridazin-3(2H)-one



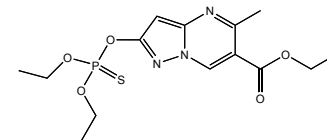
Chloridazon, PCA

CAS 1698-60-8 **MF** C₁₀H₈ClN₃O **MW** 221.64 **PS S**
SG 1.42 g/cm³ **MP** 198-202 °C **BP** 312 °C **FP** 143 °C
SOL M,A,T,CN,EA,D

Matrix	Cat. No.	Unit
NEAT	P-395N	10 mg
100 µg/mL in MeOH	P-395S	1 mL
1000 µg/mL in MeOH	P-395S-10X	1 mL

Pyrazophos

Ethyl 2-diethoxyphosphinothioxy-5-methylpyrazolo[1,5-a]pyrimidine-6-carboxylate



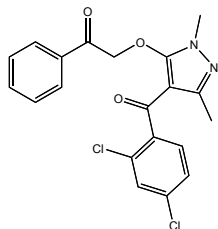
CAS 13457-18-6 **MF** C₁₄H₂₀N₃O₃PS **MW** 373.37
PS S SG 1.38 g/cm³ **MP** 51-52 °C **BP** ~160 °C
FP 36 °C **SOL** M,A,D,H,T,CN,TP,EA

Matrix	Cat. No.	Unit
NEAT	P-359N	10 mg
100 µg/mL in MeOH	P-359S	1 mL



Pyrazoxyfen

2-(4-(2,4-Dichlorobenzoyl)-1,3-dimethylpyrazol-5-yloxy)acetophenone

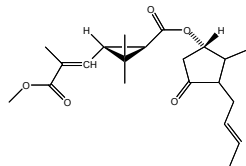


CAS 71561-11-0 **MF** C₂₀H₁₈Cl₂N₂O₃ **MW** 403.26
PS S **SG** 1.33 g/cm³ **MP** 111-112 °C **BP** 600 °C
FP 317 °C **SOL** M,A,H

Matrix	Cat. No.	Unit
NEAT	P-618N	10 mg
100 µg/mL in MeOH	P-618S	1 mL

Pyrethrins

[(1S)-2-methyl-4-oxo-3-[(2E)-penta-2,4-dienyl]cyclopent-2-en-1-yl]-(1R,3R)-3-[(E)-3-methoxy-2-methyl-3-oxoprop-1-enyl]-2,2-dimethylcyclopropane-1-carboxylate

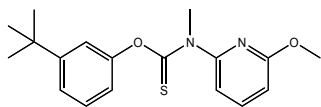


CAS 8003-34-7 **PS L** **SG** 0.85 g/cm³
BP 170-200 °C **FP** 75 °C **SOL** M,A,D,H,T,CN,EA

Matrix	Cat. No.	Unit
NEAT	P-187N	10 mg
100 µg/mL in MeOH	P-187S	1 mL

Pyributicarb

O-3-tert-Butylphenyl (6-methoxy-2-pyridyl)(methyl) thiocarbamate

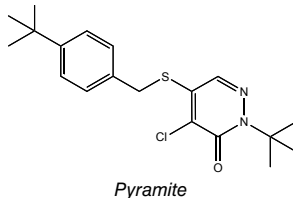


CAS 88678-67-5 **MF** C₁₆H₂₂N₂O₂S **MW** 330.45
PS S **SG** 1.16 g/cm³ **MP** 86 °C **BP** 427-428 °C
FP >200 °C **SOL** M,A,EA,CN

Matrix	Cat. No.	Unit
100 µg/mL in MeOH	P-987S	1 mL

Pyridaben

4-Chloro-2-(1,1-dimethylethyl)-5-((4-(1,1-dimethylethyl)phenyl)methylthio)-3(2H)-pyridazinone



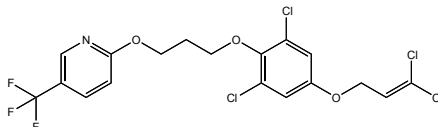
Pyramite

CAS 96489-71-3 **MF** C₁₉H₂₅ClN₂OS **MW** 364.93
PS S **SG** 1.12 g/cm³ **MP** 111-112 °C **BP** 430 °C
FP 214 °C **SOL** M,A,D,T,CN,EA,H

Matrix	Cat. No.	Unit
NEAT	P-693N	10 mg
100 µg/mL in MeOH	P-693S	1 mL

Pyridalyl

2-[3-[2,6-Dichloro-4-[(3,3-dichloro-2-propenyl)oxy]phenoxy]propoxy]-5-(trifluoromethyl)pyridine

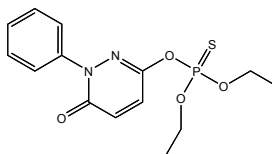


CAS 179101-81-6 **MF** C₁₈H₁₄Cl₄F₃NO₃ **MW** 491.11
PS S **SG** 1.45 g/cm³ **MP** 192-193 °C
BP 545-546 °C **FP** 284 °C **SOL** M,A,CN,H,EA

Matrix	Cat. No.	Unit
NEAT	P-990N	10 mg
100 µg/mL in MeOH	P-990S	1 mL

Pyridaphenthion

O-(1,6-Dihydro-6-oxo-1-phenylpyridazin-3-yl) O,O-diethyl phosphorothioate



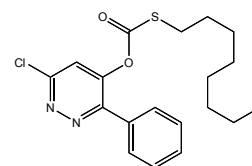
Ofunack

CAS 119-12-0 **MF** C₁₄H₁₇N₂O₄PS **MW** 340.34
PS S **SG** 1.30 g/cm³ **MP** 54-56 °C **BP** 416 °C
FP 206 °C **SOL** M,A,CN,EA,H,T,D

Matrix	Cat. No.	Unit
100 µg/mL in MeOH	P-610S	1 mL

Pyridate

6-Chloro-3-phenylpyridazin-4-yl S-octyl thiocarbonate



Lentagran

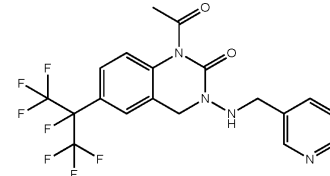
CAS 55512-33-9 **MF** C₁₉H₂₃ClN₂O₂S **MW** 378.92
SOL M,A,CN,EA

Matrix	Cat. No.	Unit
NEAT	P-404N	10 mg
100 µg/mL in MeOH	P-404S	1 mL

Pyrifenox, see Pyriphenox

Pyrifluquinazon

1-acetyl-3,4-dihydro-3-[(3-pyridinylmethyl)amino]-6-[1,2,2,2-tetrafluoro-1-(trifluoromethyl)ethyl]-2(1H)-quinazolinone

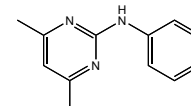


CAS 337458-27-2 **MF** C₁₉H₁₅F₇N₄O₂ **MW** 464.34
PS S **SG** 1.50 g/cm³ **MP** 138-139 °C **FP** >200 °C
SOL CN

Matrix	Cat. No.	Unit
100 µg/mL in AcCN	P-1093S-CN	1 mL

Pyrimethanil

N-(4,6-Dimethylpyrimidin-2-yl)aniline



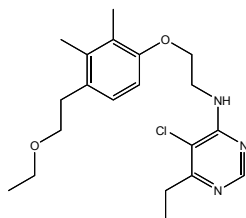
2-Anilino-4,6-dimethylpyrimidine

CAS 53112-28-0 **MF** C₁₂H₁₃N₃ **MW** 199.25 **PS S**
SG 1.15 g/cm³ **MP** 96.3 °C
SOL M,A,D,H,T,CN,EA,W

Matrix	Cat. No.	Unit
NEAT	P-723N	10 mg
100 µg/mL in MeOH	P-723S	1 mL

**Pyrimidifen**

5-Chloro-N-[2-[4-(2-ethoxyethyl)-2,3-dimethylphenoxy]ethyl]-6-ethyl-4-pyrimidinamine

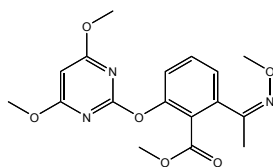


CAS 105779-78-0 MF C₂₆H₂₆ClN₃O₂ MW 377.91
 PS S SG 1.15 g/cm³ MP 70 °C BP 535-536 °C
 FP 278 °C SOL M,A,CN

Matrix	Cat. No.	Unit
100 µg/mL in MeOH	P-989S	1 mL

(E)-Pyriminobac-methyl

Methyl (E)-2-((4,6-dimethoxypyrimidin-2-yl)oxy)-6-(1-(N-methoxyimino)ethyl)benzoate



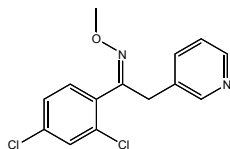
Pyriminobac-methyl(E)

CAS 147411-69-6 MF C₁₈H₁₈N₂O₆ MW 361.35
 PS S SG 1.33 g/cm³ MP 105 °C BP 536-537 °C
 FP 280 °C SOL A,EA,H,M

Matrix	Cat. No.	Unit
50 µg/mL in MeOH	P-1030S-0.5X	1 mL

Pyriminobac-methyl(E), see (E)-Pyriminobac-methyl*Pyrinuron*, see *Vacor***Pyriphenox**

1-(2,4-Dichlorophenyl)-2-(3-pyridinyl)ethanone O-methyloxime



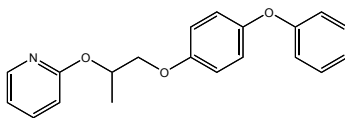
Pyriphenox

CAS 88283-41-4 MF C₁₄H₁₂Cl₂N₂O MW 295.16
 PS L SG 1.25 g/cm³ BP 212 °C FP 106 °C
 SOL M,A,CN,T,H

Matrix	Cat. No.	Unit
100 µg/mL in MeOH	P-668S	1 mL

Pyriproxyfen

2-[1-Methyl-2-(4-phenoxyphenoxy)ethoxy]pyridine



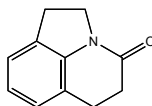
Admiral

CAS 95737-68-1 MF C₂₀H₁₉NO₃ MW 321.37 PS S
 SG 1.23 g/cm³ MP 45-47 °C SOL M,A,D,CN,H

Matrix	Cat. No.	Unit
NEAT	P-795N	10 mg
100 µg/mL in AcCN	P-795S-CN	1 mL

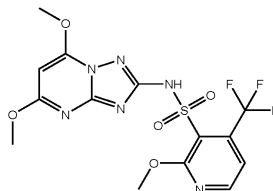
Pyroquilon

1,2,5,6-tetrahydropyrrrolo[3,2,1-ij]quinolin-4-one



CAS 57369-32-1 MF C₁₁H₁₁NO MW 173.21 PS S
 SG 1.25 g/cm³ MP 112 °C BP 355 °C FP 174 °C
 SOL M,CN,A,D,W,IPA

Matrix	Cat. No.	Unit
NEAT	P-696N	10 mg
100 µg/mL in MeOH	P-696S	1 mL

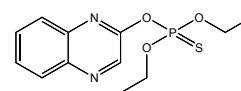
Pyroxsulam

CAS 422556-08-9 MF C₁₄H₁₃F₃N₃O₅ MW 434.35
 PS S SG 1.62 g/cm³ MP 208 °C
 SOL A,CN,EA,M,W

Matrix	Cat. No.	Unit
NEAT	P-1060N	10 mg
100 µg/mL in MeOH	P-1060S	1 mL

Pyroxystrobin, see *Azoxystrobin**Pyrodiazole*, see *1,2,4-Triazole***Quinalphos**

O,O-diethyl O-quinoxalin-2-yl phosphorothioate



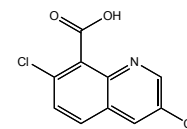
Diethquinalphione

CAS 13593-03-8 MF C₁₂H₁₅N₂O₃PS MW 298.3
 PS L SG 1.24 g/cm³ MP 31-32 °C BP ~142 °C
 FP >100 °C SOL M,A,D,H,T,CN

Matrix	Cat. No.	Unit
NEAT	P-462N	10 mg
100 µg/mL in MeOH	P-462S	1 mL

Quinlorac

3,7-Dichloro-8-quinolinecarboxylic acid



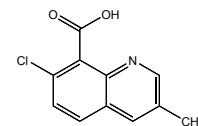
Facet

CAS 84087-01-4 MF C₁₀H₆Cl₂NO₂ MW 242.06
 PS S SG 1.58 g/cm³ MP 274 °C BP 405 °C
 FP 199 °C SOL M,CN,A

Matrix	Cat. No.	Unit
NEAT	P-692N	10 mg
100 µg/mL in MeOH	P-692S	1 mL
100 µg/mL in AcCN	P-692S-CN	1 mL

Quinmerac

7-Chloro-3-methylquinoline-8-carboxylic acid

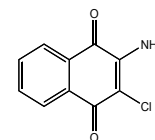


CAS 90717-03-6 MF C₁₁H₈ClNO₂ MW 221.64
 PS S SG 1.49 g/cm³ MP 244 °C
 SOL M,A,CN,T,D,W,H,EA

Matrix	Cat. No.	Unit
NEAT	P-836N	10 mg
100 µg/mL in AcCN	P-836S-CN	1 mL

Quinoclamine

2-Amino-3-chloro-1,4-naphthalenedione



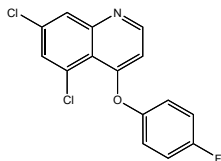
CAS 2797-51-5 MF C₁₀H₆ClNO₂ MW 207.61 PS S
 SG 1.55 g/cm³ MP 201 °C BP 348 °C FP >200 °C
 SOL M,A,CN,EA,T,D

Matrix	Cat. No.	Unit
NEAT	P-985N	10 mg
100 µg/mL in MeOH	P-985S	1 mL

▲ Pesticides containing a carboxyl group may autoesterify in Methanol. These standards are intended for use after making the methyl derivative. For analysis of the parent compound we suggest a non-hydroxylic solvent such as Acetonitrile.

**Quinoxyfen**

5,7-dichloro-4-(4-fluorophenoxy)quinoline

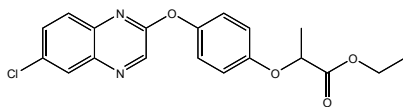
CAS 124495-18-7 MF C₁₅H₈Cl₂FNO MW 308.13
PS S SG 1.67 g/cm³ MP 177 °C BP 374 °C FP 134 °C
SOL M,A,CN,H,T,D,EA

Matrix	Cat. No.	Unit
NEAT	P-882N-5MG	5 mg
100 µg/mL in MeOH	P-882S	1 mL

Quintozene, see Pentachloronitrobenzene

Quizalofop ethyl

Propanoic acid, 2-[4-[(6-chloro-2-quinoxalinyloxy)phenoxy]-, ethyl ester

CAS 76578-14-8 MF C₁₉H₁₇ClN₂O₄ MW 372.8
PS S SG 1.30 g/cm³ MP 91 °C BP 504 °C
FP 259 °C SOL M,A,CN,TP,EA,H

Matrix	Cat. No.	Unit
NEAT	P-293N	10 mg
100 µg/mL in AcCN	P-293S-CN	1 mL

Racumin, see Coumatetralyl

Ramrod, see Propachlor

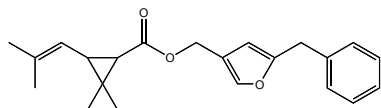
Randbox, see Allidochlor

Raptor, see Imazamox

Reldan, see Chlorpyrifos-methyl

Resmethrin

5-Benzyl-3-furylmethyl (±)-cis-trans-chrysanthemate

CAS 10453-86-8 MF C₂₂H₂₆O₃ MW 338.44 PS S
SG 0.96 g/cm³ MP 56 °C BP ~180 °C
SOL M,A,D,H,CN,TP,EA,T

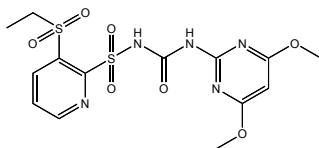
Matrix	Cat. No.	Unit
NEAT	P-325N	10 mg
100 µg/mL in MeOH	P-325S	1 mL

Rilof, see Piperophos

Rimon, see Novaluron

Rimsulfuron

1-(4,6-Dimethoxypyrimidin-2-yl)-3-(3-ethylsulfonyl-2-pyridylsulfonyl)urea

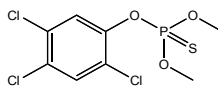
CAS 122931-48-0 MF C₁₄H₁₇N₅O₇S₂ MW 431.45
PS S SG 0.78 g/cm³ MP 176 °C FP >200 °C
SOL M,CN,A,D,EA

Matrix	Cat. No.	Unit
NEAT	P-837N	10 mg
100 µg/mL in AcCN	P-837S-CN	1 mL

Rogor, see Dimethoate

Ronnel

O,O-Dimethyl O-(2,4,5-trichlorophenyl) phosphorothioate



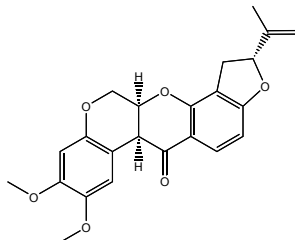
Fenclorphos

CAS 299-84-3 MF C₈H₆Cl₃O₃PS MW 321.55 PS S
SG 1.44 g/cm³ MP 41 °C BP 151-154 °C
SOL M,A,D,H,T,CN,TP,EA

Matrix	Cat. No.	Unit
NEAT	P-080N	10 mg
100 µg/mL in MeOH	P-080S	1 mL
1000 µg/mL in Hexane	P-080S-H-10X	1 mL

Rotenone

(2R, 6aS, 12aS)-1,2,6,6a,12,12a-Hexahydro-2-isopropenyl-8,9-dimethoxychromeno[3,4-b]furo[2,3-h]chromen-6-one

CAS 83-79-4 MF C₂₃H₂₂O₆ MW 394.42 PS S
SG 0.67 g/cm³ MP 163 °C BP 215 °C
SOL M,A,CN

Matrix	Cat. No.	Unit
NEAT	P-056N	10 mg
100 µg/mL in MeOH	P-056S	1 mL

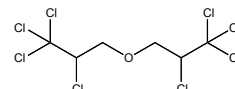
Roundup, see Glyphosate

Rozol, see Chlorophacinone

RU 15525, see Kadethrine

S421

1,1'-Oxybis(2,3,3,3-tetrachloropropane)



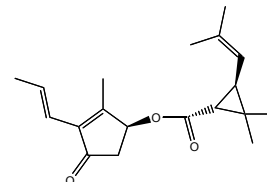
Bis(2,3,3,3-tetrachloropropyl) ether

CAS 127-90-2 MF C₆H₆Cl₈O MW 377.73 PS S
SG 1.67 g/cm³ MP 177 °C BP 374 °C FP 134 °C
SOL M,A,CN

Matrix	Cat. No.	Unit
NEAT	P-749N	10 mg
100 µg/mL in MeOH	P-749S	1 mL

S-Bioallethrin

(S)-3-Allyl-2-methyl-4-oxocyclopent-2-enyl (1R,3R)-2,2-dimethyl-3-(2-methylprop-1-enyl)cyclopropanecarboxylate



Esbio

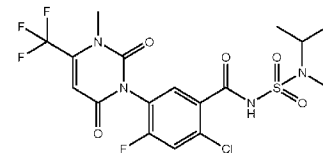
CAS 28434-00-6 MF C₁₉H₂₆O₃ MW 302.41 PS L
SG 1.02 g/cm³ BP 140 °C FP 166 °C
SOL M,T,A,D,H,EA,M

Matrix	Cat. No.	Unit
NEAT	P-664N	10 mg
100 µg/mL in MeOH	P-664S	1 mL

SADH, see Alar (SADH)

Saflufenacil

N'-[2-chloro-4-fluoro-5-[1,2,3,6-tetrahydro-3-methyl-2,6-dioxo-4-(trifluoromethyl)pyrimidin-1-yl]benzoyl]-N-isopropyl-N-methylsulfamide

CAS 372137-35-4 MF C₁₇H₁₇ClF₄N₄O₅S
MW 500.85 PS S SG 1.60 g/cm³ MP 189-190 °C
SOL M,CN,A,T,EA,W

Matrix	Cat. No.	Unit
NEAT	P-1078N	10 mg
100 µg/mL in MeOH	P-1078S	1 mL

Safrotrin, see Propetamphos

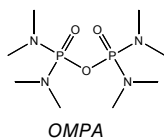
Sancap, see Dipropetryn



Pesticide Standards

Schradan

Octamethylpyrophosphoramidate

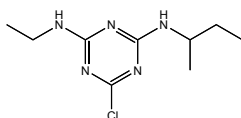


CAS 152-16-9 MF $C_8H_{24}N_4O_3P_2$ MW 286.25 PS L
SG 1.17 g/cm³ BP 320 °C FP 147 °C SOL M,D

Matrix	Cat. No.	Unit
NEAT	P-418N	10 mg
100 µg/mL in MeOH	P-418S	1 mL

Sebuthylazin

2-(sec-Butylamino)-4-chloro-6-(ethylamino)-s-triazine

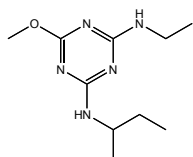


CAS 7286-69-3 MF $C_9H_{16}ClN_5$ MW 229.71 PS S
SG 1.17 g/cm³ MP 158-159 °C SOL M,A,D,CN

Matrix	Cat. No.	Unit
NEAT	P-432N	10 mg
100 µg/mL in MeOH	P-432S	1 mL

Secbumeton

2-sec-Butylamino-4-ethylamino-6-methoxy-1,3,5-triazine



CAS 26259-45-0 MF $C_{10}H_{19}N_5O$ MW 225.29 PS S
SG 1.14 g/cm³ MP 86-88 °C BP 364 °C FP 175 °C
SOL D,M,A

Matrix	Cat. No.	Unit
NEAT	P-165N	10 mg
100 µg/mL in MeOH	P-165S	1 mL

Select, see *Clethodim*

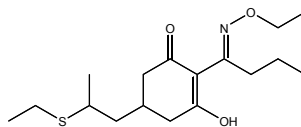
Semeron, see *Desmetryn*

Sencor, see *Metribuzin*

Sesone, see *Disul, sodium salt*

Sethoxydim

2-[1-(Ethoximino)butyl]-5-[2-(ethylthio)propyl]-3-hydroxy-2-cyclohexen-1-one



CAS 74051-80-2 MF $C_{17}H_{29}NO_3S$ MW 327.48 PS L
SG 1.04 g/cm³ BP 90 °C SOL M,A,CN,W,EA,H

Matrix	Cat. No.	Unit
NEAT	P-306N	10 mg
100 µg/mL in AcCN	P-306S-CN	1 mL

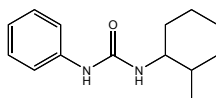
Sevin, see *Carbaryl*

Shibagen, see *Flazasulfuron*

Sibutol, see *Bitertanol*

Siduron

1-(2-Methylcyclohexyl)-3-phenylurea

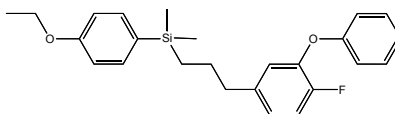


CAS 1982-49-6 MF $C_{14}H_{20}N_2O$ MW 232.32 PS S
SG 1.08 g/cm³ MP 133-138 °C SOL M,A,H,CN,D

Matrix	Cat. No.	Unit
NEAT	P-063N	10 mg
100 µg/mL in MeOH	P-063S	1 mL

Silafluofen

(4-ethoxyphenyl)[3-(4-fluoro-3-phenoxyphenyl)propyl](dimethyl)silane



Silaneophan

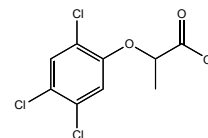
CAS 105024-66-6 MF $C_{25}H_{29}FO_2Si$ MW 408.58
PS L SG 1.08 g/cm³ MP <25 °C BP 484 °C
FP 247 °C SOL M,CN

Matrix	Cat. No.	Unit
NEAT	P-717N	10 mg
100 µg/mL in MeOH	P-717S	1 mL

Silaneophan, see *Silafluofen*

Silvex

2,4,5-Trichlorophenoxypropanoic acid



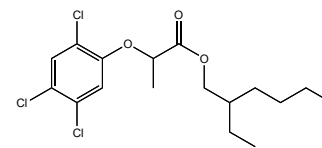
Fenoprop, 2,4,5-TP

CAS 93-72-1 MF $C_9H_7Cl_3O_3$ MW 269.51 PS S
MP 175-177 °C BP 378 °C FP 183 °C
SOL M,A,D,H,CN

Matrix	Cat. No.	Unit
NEAT	P-084N	10 mg
100 µg/mL in MeOH	P-084S ▲	1 mL
1000 µg/mL in MeOH	P-084S-10X ▲	1 mL
5000 µg/mL in MeOH	P-084S-50X ▲	1 mL
100 µg/mL in AcCN	P-084S-CN	1 mL

Silvex 2-ethylhexyl ester

2-(2,4,5-Trichlorophenoxy)propionic acid, 2-ethylhexyl ester



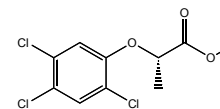
Fenoprop 2-ethylhexyl ester

CAS 53404-76-5 MF $C_{17}H_{23}Cl_3O_3$ MW 381.72 PS S
SOL M

Matrix	Cat. No.	Unit
NEAT	P-728N	10 mg
100 µg/mL in MeOH	P-728S	1 mL

Silvex methyl ester

Methyl 2-(2,4,5-trichlorophenoxy)propionate



Fenoprop methyl ester, 2,4,5-TP methyl ester

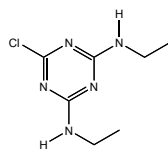
CAS 4841-20-7 MF $C_{10}H_9Cl_3O_3$ MW 283.53 PS S
SG 1.40 g/cm³ MP 88-90 °C BP 337 °C FP 135 °C
SOL M,A,D,H,T,TP

Matrix	Cat. No.	Unit
NEAT	P-115N	10 mg
100 µg/mL in MeOH	P-115S	1 mL

▲ Pesticides containing a carboxyl group may autoesterify in Methanol. These standards are intended for use after making the methyl derivative. For analysis of the parent compound we suggest a non-hydroxylic solvent such as Acetonitrile.

**Simazine**

6-Chloro-N,N'-diethyl-1,3,5-triazine-2,4-diamine

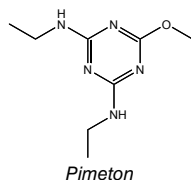


CAS 122-34-9 **MF** C₇H₁₂ClN₃ **MW** 201.66 **PS** S
SG 1.30 g/cm³ **MP** 226 °C **FP** 100 °C
SOL M,A,D,H,T,CN,TP,EA

Matrix	Cat. No.	Unit
NEAT	P-085N	10 mg
100 µg/mL in MeOH	P-085S	1 mL
1000 µg/mL in MeOH	P-085S-10X	1 mL
1000 µg/mL in Acetone	P-085S-A-10X	1 mL

Simeton

2,4-bis(Ethylamino)-6-methoxy-s-triazine

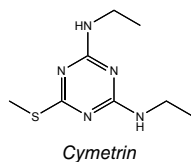


CAS 673-04-1 **MF** C₈H₁₅N₅O **MW** 197.24 **PS** S
SG 1.20 g/cm³ **MP** 114-116 °C **BP** 347 °C **FP** 164 °C
SOL M

Matrix	Cat. No.	Unit
NEAT	P-501N	10 mg
100 µg/mL in MeOH	P-501S	1 mL

Simetryn

N,N'-Diethyl-6-methylthio-1,3,5-triazine-2,4-diamine

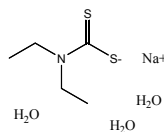


CAS 1014-70-6 **MF** C₈H₁₅N₃S **MW** 213.3 **PS** S
SG 1.02 g/cm³ **MP** 82-83 °C
SOL M,A,D,CN,EA,T,H,W

Matrix	Cat. No.	Unit
NEAT	P-166N	10 mg
100 µg/mL in MeOH	P-166S	1 mL

*Siperin, see Cypermethrin**SMDC, see Metam-sodium dihydrate***Sodium diethyldithiocarbamate trihydrate**

Diethyldithiocarbamic acid sodium salt trihydrate

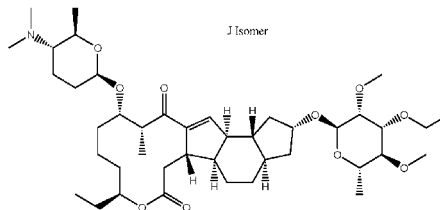


CAS 20624-25-3 **MF** C₅H₁₀NNaS₂·3H₂O
MW 225.31 **PS** S **SG** 1.1 g/cm³ **MP** 97 °C **SOL** W

Matrix	Cat. No.	Unit
NEAT	P-505N	10 mg
100 µg/mL in Water	P-505S-W	1 mL

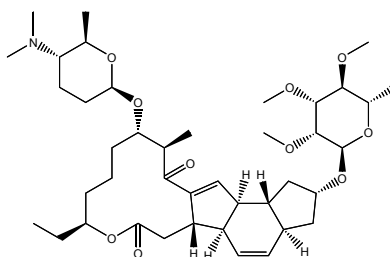
*Sonalan, see Ethafluralin**Sonar, see Fluridone**Spectracide®, see Diazinon***Spinetoram**

Mix of Isomers J & L



CAS 187166-40-1/187166-15-0 **MF** C₄₂H₆₉NO₁₀/
C₄₃H₆₉NO₁₀ **MW** 748.00/760.03 **PS** S **MP** 107-108 °C
BP Decomp. ~293 °C **SOL** A,M,CN

Matrix	Cat. No.	Unit
100 µg/mL in AcCN	P-1083S-CN	1 mL

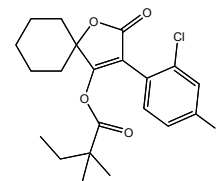
Spinosad

CAS 168316-95-8 **MF** C₄₁H₆₅NO₁₀ + C₄₂H₆₇NO₁₀
MW 731.96/745.98 **PS** S **SG** 0.51 g/cm³
MP 84-99 °C **SOL** M,D,CN,A,EA, H,W,T

Matrix	Cat. No.	Unit
NEAT	P-864N	10 mg
100 µg/mL in AcCN	P-864S-CN	1 mL

*Spinosad technical, see Spinosad***Spirodiclofen**

3-(2,4-dichlorophenyl)-2-oxo-1-oxaspiro[4.5]dec-3-en-4-yl 2,2-dimethylbutanoate

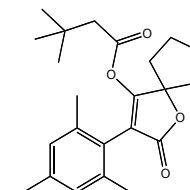


CAS 148477-71-8 **MF** C₂₁H₂₄Cl₂O₄ **MW** 411.32
PS S **SG** 1.29 g/cm³ **MP** 94-95 °C **BP** Decomp.
FP >200 °C **SOL** M,A,CN,EA,D,IPA,DMSO

Matrix	Cat. No.	Unit
NEAT	P-938N	10 mg
100 µg/mL in MeOH	P-938S	1 mL

Spiromesifen

3-(2,4-dichlorophenyl)-2-oxo-1-oxaspiro[4.5]dec-3-en-4-yl 2,2-dimethylbutanoate

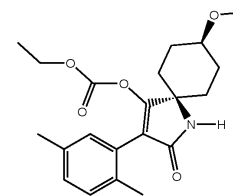


CAS 283594-90-1 **MF** C₂₃H₃₀O₄ **MW** 370.48 **PS** S
SG 1.13 g/cm³ **MP** 98 °C **BP** Decomp. ~375 °C
FP >200 °C **SOL** W,IPA,D,A,EA,CN

Matrix	Cat. No.	Unit
100 µg/mL in AcCN	P-960S-CN	1 mL

Spirotetramat

cis-3-(2,5-dimethylphenyl)-8-methoxy-2-oxo-1-azaspiro[4.5]dec-3-en-4-yl ethyl carbonate

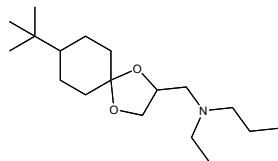


CAS 203313-25-1 **MF** C₂₁H₂₇NO₅ **MW** 373.44
PS S **SG** 1.22 g/cm³ **MP** 142 °C
SOL M,CN,H,D,T,EA,DMSO,A

Matrix	Cat. No.	Unit
NEAT	P-1077N	10 mg
100 µg/mL in AcCN	P-1077S-CN	1 mL

**Spiroxamine**

N-Ethyl-N-propyl-8-tert-butyl-1,4-dioxaspiro[4.5]dec-2-ylmethylamine



CAS 118134-30-8 **MF** C₁₈H₃₅NO₂ **MW** 297.48 **PS L**
SG 0.94 g/cm³ **BP** 128-131 °C **FP** 147 °C
SOL M,A,CN,H,T,D,IPA

Matrix	Cat. No.	Unit
NEAT	P-869N	10 mg
100 µg/mL in AcCN	P-869S-CN	1 mL

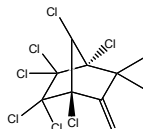
Spotless™, see *Diniconazol*

Starlex, see *Pyraclofos*

Stirophos, see *Tetrachlorvinphos*

Strobane

(1S,4R)-1,2,2,3,3,4,7-Heptachloro-5,5-dimethyl-6-methylenebicyclo[2.2.1]heptane



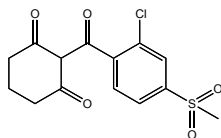
CAS 8001-50-1 **MF** C₁₀H₈Cl₇ **MW** 377.35 **PS L**
SG 1.63 g/cm³ **BP** 416 °C **FP** 206 °C **SOL** M

Matrix	Cat. No.	Unit
NEAT	P-339N	10 mg
100 µg/mL in MeOH	P-339S	1 mL

Suffix, see *Benzoylprop-ethyl*

Sulcotrione

2-(2-Chloro-4-(methylsulfonyl)benzoyl)-1,3-cyclohexanedione



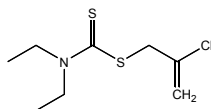
Chlormesulon

CAS 99105-77-8 **MF** C₁₄H₁₃ClO₅ **MW** 328.77
PS S **MP** 139 °C **BP** Decomp. **SOL** M,CN,D,A,W

Matrix	Cat. No.	Unit
NEAT	P-951N	10 mg
100 µg/mL in MeOH	P-951S	1 mL

Sulfallate

Carbamodithioic acid,N,N-diethyl-,2-chloro-2-propen-1-yl ester



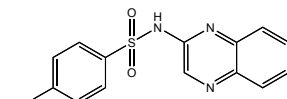
Vegadex

CAS 95-06-7 **MF** C₆H₁₄ClNS₂ **MW** 223.79 **PS L**
SG 1.16 g/cm³ **BP** 315 °C **FP** 114 °C
SOL M,D,CN,TP

Matrix	Cat. No.	Unit
NEAT	P-327N	10 mg
100 µg/mL in MeOH	P-327S	1 mL

Sulfaquinoxaline

4-Amino-N-2-quinoxaliny-benzenesulfonamide



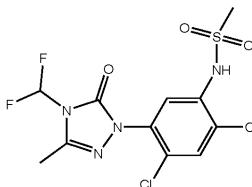
Sulfoquinoxaline

CAS 59-40-5 **MF** C₁₄H₁₂N₄O₂S **MW** 300.34
SOL M,A

Matrix	Cat. No.	Unit
100 µg/mL in MeOH	P-681S	1 mL

Sulfentrazone

2',4'-dichloro-5'-(4-difluoromethyl-4,5-dihydro-3-methyl-5-oxo-1H-1,2,4-triazol-1-yl)methanesulfonanilide



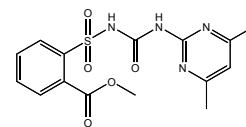
CAS 122836-35-5 **MF** C₁₁H₁₀Cl₂F₂N₃O₃S
MW 387.19 **PS S** **SG** 0.53 g/cm³ **MP** 122 °C
SOL A,CN,T,H,W

Matrix	Cat. No.	Unit
NEAT	P-798N	10 mg
100 µg/mL in AcCN	P-798S-CN	1 mL

Sulfometuron methyl, see *Sulfometuron methyl ester*

Sulfometuron methyl ester

Benzoic acid, 2-[[[(4,6-dimethyl-2-pyrimidinyl)amino]carbonyl]amino]sulfonyl]-, methylester



Sulfometuron methyl

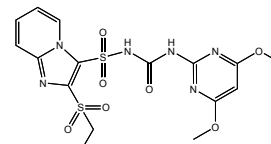
CAS 74222-97-2 **MF** C₁₅H₁₆N₄O₅S **MW** 364.38
PS S **SG** 1.48 g/cm³ **MP** 198-202 °C
SOL M,A,EA,T,D,W,EA,CN,DMSO

Matrix	Cat. No.	Unit
NEAT	P-336N	10 mg

Sulfoquinoxaline, see *Sulfaquinoxaline*

Sulfosulfuron

N-[[[4,6-Dimethoxy-2-pyrimidinyl]amino]carbonyl]-2-(ethylsulfonyl)imidazo[1,2-a]pyridine-3-sulfonamide

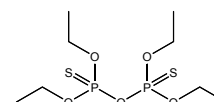


CAS 141776-32-1 **MF** C₁₆H₁₆N₆O₅S₂ **MW** 470.48
PS S **SG** 1.52 g/cm³ **MP** 201-202 °C
SOL M,CN,A,EA,W,D

Matrix	Cat. No.	Unit
10 µg/mL in AcCN	P-865S-CN-0.1X	1 mL

Sulfotep

Tetraethyl dithiopyrophosphate



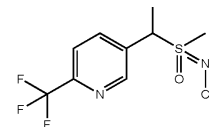
TEDP

CAS 3689-24-5 **MF** C₈H₂₀O₃P₂S₂ **MW** 322.32 **PS L**
SG 1.20 g/cm³ **BP** 120 °C **SOL** M,A,D,H,T,CN,EA

Matrix	Cat. No.	Unit
NEAT	P-167N	10 mg
100 µg/mL in MeOH	P-167S	1 mL

Sulfoxaflor

N-[Methyloxodio][1-(6-trifluoromethyl)-3-pyridyl]ethyl]-y4-sulfanylidene]cyanamide

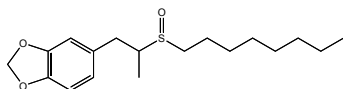


CAS 946578-00-3 **MF** C₁₀H₁₀F₃N₃OS **MW** 277.27
PS S **SG** 1.52 g/cm³ **MP** 112-113 °C
BP Decomp. ~167 °C **SOL** M

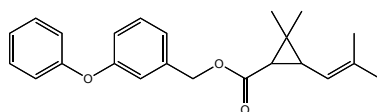
Matrix	Cat. No.	Unit
100 µg/mL in MeOH	P-1133S	1 mL

**Sulfoxide**

2-(1,3-benzodioxol-5-yl)ethyl octyl sulfoxide

CAS 120-62-7 MF C₁₆H₂₆O₃S MW 324.48 PS L
SG 1.11 g/cm³ BP 185 °C FP 247 °C SOL M,A,D

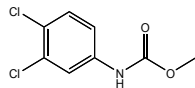
Matrix	Cat. No.	Unit
NEAT	P-396N	10 mg
100 µg/mL in MeOH	P-396S	1 mL

*Sulprofos, see Bolstar***Sumithrin**2,2-Dimethyl-3-(2-methyl-1-propenyl)
cyclopropanecarboxylic acid
(3-phenoxyphenyl)methyl ester*d-Phenothrin*CAS 26002-80-2 MF C₂₃H₂₆O₃ MW 350.45 PS L
SG 1.12 g/cm³ BP 437 °C FP 187 °C
SOL M,A,D,H,CN,TP,EA

Matrix	Cat. No.	Unit
NEAT	P-050N	10 mg
100 µg/mL in MeOH	P-050S	1 mL

*Supona, see Chlorfenvinphos**Suprathion, see Methidathion**Surflan, see Oryzalin**Sutan, see Butylate***Swep**

Methyl 3,4-dichlorocarbanilate

CAS 1918-18-9 MF C₇H₇Cl₂NO₂ MW 220.05 PS S
SG 1.44 g/cm³ BP 252 °C FP 106 °C SOL M,H,CN

Matrix	Cat. No.	Unit
NEAT	P-061N	10 mg
100 µg/mL in MeOH	P-061S	1 mL

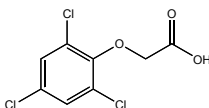
*Sythane, see Myclobutanil**Systox, see Demeton (mixed isomers)*

2,4,5-T, see 2,4,5-T acid

▲ Pesticides containing a carboxyl group may autoesterify in Methanol. These standards are intended for use after making the methyl derivative. For analysis of the parent compound we suggest a non-hydroxylic solvent such as Acetonitrile.

2,4,6-T

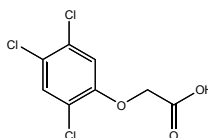
2-(2,4,6-trichlorophenoxy)acetic acid

CAS 575-89-3 MF C₈H₅Cl₃O₃ MW 255.48 PS S
SG 1.59 g/cm³ MP 128-129 °C BP 373 °C FP 180 °C
SOL M,A,D,CN

Matrix	Cat. No.	Unit
NEAT	P-523N	10 mg
100 µg/mL in MeOH	P-523S ▲	1 mL
100 µg/mL in AcCN	P-523S-CN	1 mL

2,4,5-T Acid

2,4,5-Trichlorophenoxyacetic acid



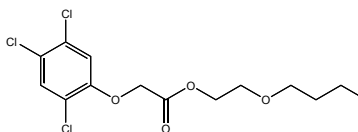
2,4,5-T

CAS 93-76-5 MF C₈H₅Cl₃O₃ MW 255.48 PS S
SG 1.80 g/cm³ MP 153-156 °C SOL M,A,D,H,CN

Matrix	Cat. No.	Unit
NEAT	P-168N	10 mg
100 µg/mL in MeOH	P-168S ▲	1 mL
1000 µg/mL in MeOH	P-168S-10X ▲	1 mL
100 µg/mL in AcCN	P-168S-CN	1 mL

2,4,5-T butoxyethyl ester

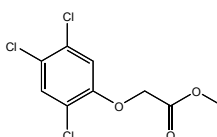
2-butoxyethyl 2-(2,4,5-trichlorophenoxy)acetate

CAS 2545-59-7 MF C₁₄H₁₇Cl₃O₄ MW 355.64 PS L
SOL CN

Matrix	Cat. No.	Unit
NEAT	P-441N	10 mg
100 µg/mL in AcCN	P-441S-CN	1 mL

2,4,5-T methyl ester

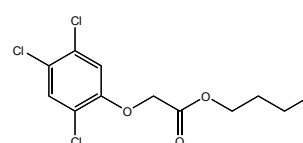
2,4,5-Trichlorophenoxyacetate

*Methyl (2,4,5-trichlorophenoxy)acetate*CAS 1928-37-6 MF C₈H₇Cl₃O₃ MW 269.51 PS S
SG 1.45 g/cm³ MP 89-92 °C BP 325 °C FP 137 °C
SOL M,A,D,H,T,CN,TP,EA

Matrix	Cat. No.	Unit
NEAT	P-067N	10 mg
100 µg/mL in MeOH	P-067S	1 mL

2,4,5-T n-butyl ester

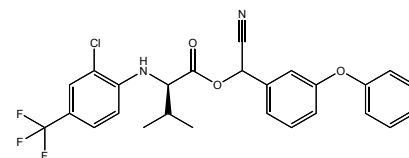
Butyl-2,4,5-trichlorophenoxyacetate

CAS 93-79-8 MF C₁₂H₁₃Cl₃O₃ MW 311.59 PS L
SG 1.32 g/cm³ BP 337 °C FP 182 °C SOL CN

Matrix	Cat. No.	Unit
NEAT	P-440N	10 mg
100 µg/mL in AcCN	P-440S-CN	1 mL

*Talstar, see Bifenthrin**Tamaron, see Monitor***Tau-Fluvalinate**

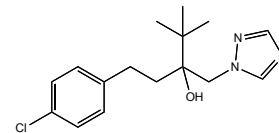
(RS)-alpha-cyano-3-phenoxybenzyl N-(2-chloro-alpha,alpha,alpha-trifluoro-p-tolyl)-D-valinate

*Mavrik*CAS 102851-06-9 MF C₂₆H₂₂ClF₃N₂O₃ MW 502.91
PS L SG 1.31 g/cm³ BP 450 °C FP 296 °C
SOL M,A,T,CN,TP,EA,H,IPA

Matrix	Cat. No.	Unit
NEAT	P-356N	10 mg
100 µg/mL in MeOH	P-356S	1 mL
1000 µg/mL in MeOH	P-356S-10X	1 mL
100 µg/mL in AcCN	P-356S-CN	1 mL

*TBZ, see Thiabendazole**TCA, see Trichloroacetic acid**TCMTB, see Busan**TCNB, see 2,3,5,6-Tetrachloronitrobenzene**TDE, see p,p'-DDD***Tebuconazol**

(RS)-1-p-Chlorophenyl-4,4-dimethyl-3-(1H-1,2,4-triazol-1-ylmethyl)pentan-3-ol

*Folicur*CAS 107534-96-3 MF C₁₆H₂₂ClN₃O MW 307.82
PS S SG 1.25 g/cm³ MP 102.4 °C CFP >100 °C
SOL M,A,D,H,T,CN,EA,IPA

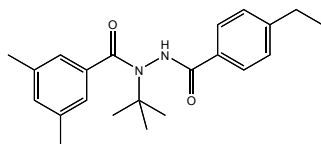
Matrix	Cat. No.	Unit
NEAT	P-451N	10 mg
100 µg/mL in MeOH	P-451S	1 mL
1000 µg/mL in MeOH	P-451S-10X	1 mL



Tebufenocide, see *Tebufenozide*

Tebufenozide

N-tert-butyl-N'-(4-ethylbenzoyl)-3,5-dimethylbenzohydrazide



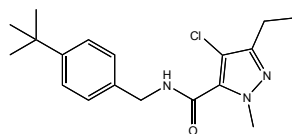
Tebufenocide

CAS 112410-23-8 **MF** C₂₂H₂₆N₂O₂ **MW** 352.47
PS S **SG** 1.03 g/cm³ **MP** 191 °C
SOL M,A,D,CN,EA,T

Matrix	Cat. No.	Unit
NEAT	P-726N	10 mg
100 µg/mL in MeOH	P-726S	1 mL

Tebufenpyrad

4-chloro-N-[[4-(1,1-dimethylethyl)phenyl]methyl]-3-ethyl-1-methyl-1H-pyrazole-5-carboxamide



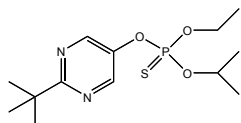
Pyranica

CAS 119168-77-3 **MF** C₁₈H₁₆ClN₃O **MW** 333.86 **PS** S
SG 1.17 g/cm³ **MP** 65 °C **BP** Decomp. ~250 °C
FP >200 °C **SOL** M,A,H,T,CN,D

Matrix	Cat. No.	Unit
NEAT	P-877N	10 mg
100 µg/mL in MeOH	P-877S	1 mL

Tebupirimfos

O-[2-(1,1-dimethylethyl)-5-pyrimidinyl] O-ethyl O-(1-methylethyl) phosphorothioate

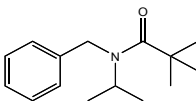


CAS 96182-53-5 **MF** C₁₃H₂₃N₂O₃PS **MW** 318.37
PS S **SG** 1.15 g/cm³ **MP** 87-88 °C **BP** 359 °C
FP 176 °C **SOL** M,A,H

Matrix	Cat. No.	Unit
NEAT	P-727N	10 mg
100 µg/mL in MeOH	P-727S	1 mL

Tebutam

N-benzyl-N-isopropylpivalamide



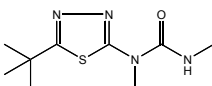
Butam

CAS 35256-85-0 **MF** C₁₅H₂₃NO **MW** 233.35 **PS** L
SG 0.98 g/cm³ **MP** <20 °C **BP** 98 °C **FP** 80 °C
SOL M,A,CN,T

Matrix	Cat. No.	Unit
100 µg/mL in MeOH	P-879S	1 mL

Tebuthiuron

1-(5-tert-Butyl-1,3,4-thiadiazol-2-yl)-1,3-dimethylurea



CAS 34014-18-1 **MF** C₉H₁₆N₄OS **MW** 228.32 **PS** S
SG 1.19 g/cm³ **MP** 161-164 °C
SOL M,A,D,CN,EA,H,W

Matrix	Cat. No.	Unit
NEAT	P-188N	10 mg
100 µg/mL in MeOH	P-188S	1 mL

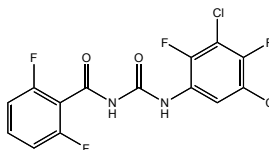
Tecnazene, see *2,3,5,6-Tetrachloronitrobenzene*

Tedion V-18, see *Tetradifon*

TEDP, see *Sulfotep*

Teflubenzuron

1-(2,5-dichloro-2,4-difluorophenyl)-3-(2,6-difluorobenzoyl)urea

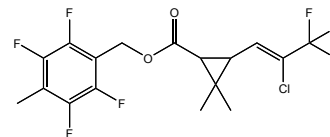


CAS 83121-18-0 **MF** C₁₄H₆Cl₂F₄N₂O₂ **MW** 381.11
PS S **SG** 1.65 g/cm³ **MP** 222-223 °C
SOL A,DMSO,D,H,T,M,CN

Matrix	Cat. No.	Unit
NEAT	P-452N	10 mg
100 µg/mL in MeOH	P-452S	1 mL

Tefluthrin

2,3,5,6-Tetrafluoro-4-methylbenzyl(Z)- (1RS,3RS)-3-(2-chloro-3,3,3-trifluoro-1-propenyl)-2,2-dimethylcyclopropanecarboxylate



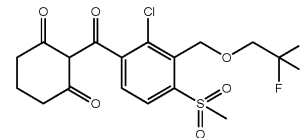
CAS 79538-32-2 **MF** C₁₇H₁₄ClF₇O₂ **MW** 418.73
PS S **SG** 1.23 g/cm³ **MP** 44-46 °C **BP** 358 °C
FP 107 °C **SOL** M,A,D,H,T,CN,EA

Matrix	Cat. No.	Unit
100 µg/mL in MeOH	P-568S	1 mL

Telodrin, see *Isobenzan*

Tembotrione

2-[2-Chloro-4-(methylsulfonyl)-3-[(2,2,2-trifluoroethoxy)methyl]benzoyl]-1,3-cyclohexanedione



CAS 335104-84-2 **MF** C₁₇H₁₆ClF₃O₆S **MW** 440.82
PS S **SG** 1.56 g/cm³ **MP** 115 °C **BP** >600 °C
FP >300 °C **SOL** W,D,DMSO,A,EA,T,H,CN

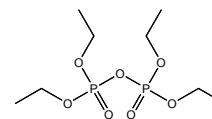
Matrix	Cat. No.	Unit
NEAT	P-1109N	10 mg
100 µg/mL in AcCN	P-1109S-CN	1 mL

Temephos, see *Abate*

Temik, see *Aldicarb*

TEPP

Tetraethylpyrophosphate



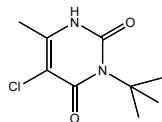
Tetron

CAS 107-49-3 **MF** C₈H₂₀O₄P₂ **MW** 290.19 **PS** L
SG 1.19 g/cm³ **BP** 310 °F **SOL** D,H,CN,A,M

Matrix	Cat. No.	Unit
NEAT	P-207N	10 mg
1000 µg/mL in Hexane	P-207S-H-10X	1 mL

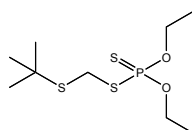
**Terbacil**

3-tert-butyl-5-chloro-6-methyluracil



CAS 5902-51-2 **MF** C₉H₁₃ClN₂O₂ **MW** 216.69 **PS** S
SG 1.34 g/cm³ **MP** 175-177 °C
SOL M,A,D,H,CN,EA,W

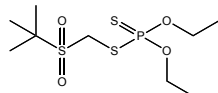
Matrix	Cat. No.	Unit
NEAT	P-096N	10 mg
100 µg/mL in MeOH	P-096S	1 mL

*Terbucarb, see Terbutol***Terbufos**S-tert-Butylthiomethyl
O,O-diethyl phosphorodithioate

Counter

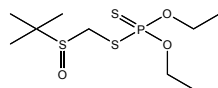
CAS 13071-79-9 **MF** C₈H₂₁O₂PS₃ **MW** 288.43 **PS** L
SG 1.10 g/cm³ **MP** -29.2 °C **BP** 69 °C **FP** 88 °C
SOL M,A,D,H,T,CN,TP,EA

Matrix	Cat. No.	Unit
NEAT	P-208N	10 mg
100 µg/mL in MeOH	P-208S	1 mL
1000 µg/mL in Hexane	P-208S-H-10X	1 mL

Terbufos sulfonePhosphorodithioic acid, S-[(1,1-dimethylethyl)
sulfonyl]methyl] O,O-diethyl ester

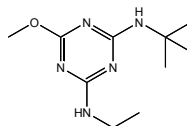
CAS 56070-16-7 **MF** C₈H₂₁O₂PS₃ **MW** 320.43
PS S **SG** 1.25 g/cm³ **MP** 74-75 °C **BP** 411 °C
FP 203 °C **SOL** M,A,CN,TP,EA

Matrix	Cat. No.	Unit
100 µg/mL in MeOH	P-729S	1 mL

Terbufos-sulfoxidePhosphorodithioic acid, S-[(1,1-dimethylethyl)
sulfinyl-methyl] O,O-diethyl ester (9Cl)

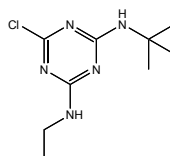
CAS 10548-10-4 **MF** C₈H₂₁O₂PS₃ **MW** 304.43
PS L **SG** 1.24 g/cm³ **BP** 397 °C **FP** 194 °C
SOL M,CN

Matrix	Cat. No.	Unit
NEAT	P-730N	10 mg
100 µg/mL in MeOH	P-730S	1 mL

TerbumetonN2-tert-Butyl-N₄-ethyl-6-methoxy-1,3,5-triazine-
2,4-diamine

CAS 33693-04-8 **MF** C₁₀H₁₉N₃O **MW** 225.29 **PS** S
SG 1.08 g/cm³ **MP** 124 °C **SOL** W,A,T,M,D,CN

Matrix	Cat. No.	Unit
NEAT	P-504N	10 mg
100 µg/mL in MeOH	P-504S	1 mL

TerbuthylazineN₂-tert-butyl-6-chloro-N₄-ethyl-1,3,5-triazine-
2,4-diamine

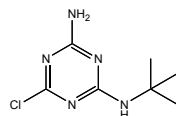
Gardoprim

CAS 5915-41-3 **MF** C₈H₁₆ClN₃ **MW** 229.71 **PS** S
SG 1.19 g/cm³ **MP** 178 °C
SOL M,A,D,H,T,CN,EA

Matrix	Cat. No.	Unit
NEAT	P-169N	10 mg
100 µg/mL in MeOH	P-169S	1 mL

Terbuthylazine desethyl

2-Amino-4-tert-butylamino-6-chloro-1,3,5-triazine



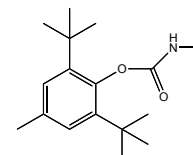
Desethylterbuthylazine

CAS 30125-63-4 **MF** C₇H₁₂ClN₃ **MW** 201.66 **PS** S
SG 1.19 g/cm³ **MP** 177-179 °C **BP** 387 °C
FP 188 °C **SOL** M,A,CN,EA

Matrix	Cat. No.	Unit
NEAT	P-613N	10 mg
100 µg/mL in MeOH	P-613S	1 mL

Terbutol

2,6-Di-tert-butyl-p-toyl methylcarbamate



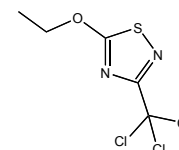
Terbucarb

CAS 1918-11-2 **MF** C₁₇H₂₇NO₂ **MW** 277.4 **PS** S
SG 0.97 g/cm³ **MP** 200 - 201 °C **BP** 334 °C
FP 156 °C **SOL** M

Matrix	Cat. No.	Unit
NEAT	P-464N	10 mg
100 µg/mL in MeOH	P-464S	1 mL

*Terbutryne, see Prebane**Terraneb, see Chloroneb***Terrazole**

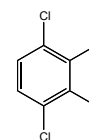
Ethyl 3-trichloromethyl-1,2,4-thiadiazol-5-yl ether



Etridiazole

CAS 2593-15-9 **MF** C₅H₅Cl₃N₂OS **MW** 247.53 **PS** L
SG 1.50 g/cm³ **MP** 20 °C **BP** 95 °C **FP** 154 °C
SOL M,A,D,H,T,CN,TP,EA

Matrix	Cat. No.	Unit
NEAT	P-190N	10 mg
100 µg/mL in MeOH	P-190S	1 mL

1,2,3,4-Tetrachlorobenzene

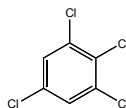
CAS 634-66-2 **MF** C₆H₂Cl₄ **MW** 215.89 **PS** S
SG 1.57 g/cm³ **MP** 44 °C **BP** 252 °C **FP** 112 °C
SOL M,A,D,H,T,TP

Matrix	Cat. No.	Unit
NEAT	P-999N	10 mg
100 µg/mL in MeOH	P-999S	1 mL



Pesticide Standards

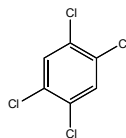
1,2,3,5-Tetrachlorobenzene



CAS 634-90-2 **MF** C₆H₂Cl₄ **MW** 215.89 **PS** S
SG 1.57 g/cm³ **MP** 54-55 °C **BP** 246 °C **FP** 110 °C
SOL M,A,D,H,T,TP

Matrix	Cat. No.	Unit
NEAT	P-1001N	10 mg
100 µg/mL in Isooctane	P-1001S-TP	1 mL

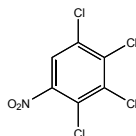
1,2,4,5-Tetrachlorobenzene



CAS 95-94-3 **MF** C₆H₂Cl₄ **MW** 215.89 **PS** S
SG 1.86 g/cm³ **MP** 139-142 °C **BP** 240-246 °C
FP >109 °C **SOL** M,A,D,H,T,CN,TP,EA

Matrix	Cat. No.	Unit
NEAT	P-1003N	10 mg
100 µg/mL in MeOH	P-1003S	1 mL

1,2,3,4-Tetrachloro-5-nitrobenzene

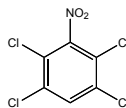


CAS 879-39-0 **MF** C₆HCl₄NO₂ **MW** 260.89 **PS** S
SG 1.75 g/cm³ **MP** 65 °C **BP** 315 °C **SOL** M

Matrix	Cat. No.	Unit
NEAT	P-1000N	10 mg
100 µg/mL in MeOH	P-1000S	1 mL

2,3,5,6-Tetrachloronitrobenzene

2,3,5,6-Tetrachloronitrobenzene



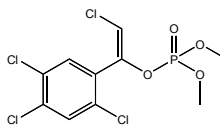
TCNB, Tecnazene

CAS 117-18-0 **MF** C₆HCl₄NO₂ **MW** 260.89 **PS** S
SG 1.75 g/cm³ **MP** 98-101 °C **BP** 304 °C **FP** 143 °C
SOL M,A,D,H,T,CN,TP,EA

Matrix	Cat. No.	Unit
NEAT	P-467N	10 mg
100 µg/mL in MeOH	P-467S	1 mL

Tetrachlorvinphos

1,2,4-Trichloro-5-[2-chloro-1-dimethoxyphosphoryloxy-ethenyl]benzene



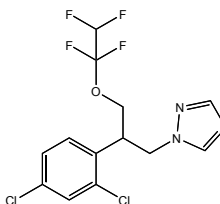
Stirophos

CAS 22248-79-9 **MF** C₁₀H₉Cl₄O₃P **MW** 365.96
PS S **SG** 1.52 g/cm³ **MP** 94-97 °C **BP** 400 °C
FP 303 °C **SOL** M,A,D,H,T,CN,TP,EA

Matrix	Cat. No.	Unit
NEAT	P-125N	10 mg
100 µg/mL in MeOH	P-125S	1 mL
1000 µg/mL in Hexane	P-125S-H-10X	1 mL

Tetraconazole

(RS)-2-(2,4-dichlorophenyl)-3-(1H-1,2,4-triazol-1-yl)propyl-1,1,2,2-tetrafluoroethyl ether

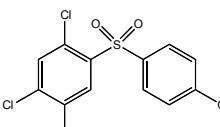


CAS 112281-77-3 **MF** C₁₃H₁₁Cl₂F₄N₃O **MW** 372.15
PS L **SG** 1.50 g/cm³ **MP** 6 °C **BP** 438 °C
FP 219 °C **SOL** M,A,T,CN,EA,W,CN,H

Matrix	Cat. No.	Unit
NEAT	P-721N	10 mg
100 µg/mL in MeOH	P-721S	1 mL

Tetradifon

4-Chlorophenyl 2,4,5-trichlorophenyl sulfone



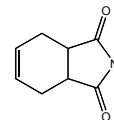
Tedion V-18

CAS 116-29-0 **MF** C₁₂H₇Cl₄O₂S **MW** 356.05 **PS** S
SG 1.52 g/cm³ **MP** 146 °C
SOL M,A,D,H,T,CN,TP,EA

Matrix	Cat. No.	Unit
NEAT	P-261N	10 mg
100 µg/mL in MeOH	P-261S	1 mL

1,2,3,6-Tetrahydrophthalimide

1,2,3,6-Tetrahydrophthalimide

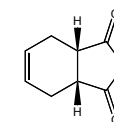


CAS 85-40-5 **MF** C₈H₇NO₂ **MW** 151.18 **PS** S
SG 1.23 g/cm³ **MP** 132-140 °C **BP** 337 °C
FP 165 °C **SOL** M,A

Matrix	Cat. No.	Unit
NEAT	P-621N	10 mg
100 µg/mL in MeOH	P-621S	1 mL

cis-d₄-Tetrahydrophthalimide

cis-d₄-Tetrahydrophthalimide

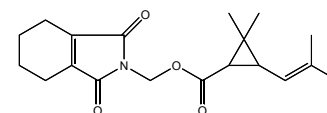


CAS 1469-48-3 **MF** C₈H₇NO₂ **MW** 151.16 **PS** S
SG 1.28 g/cm³ **MP** 129-133 °C **BP** 337 °C **FP** 165 °C
SOL M,A,CN

Matrix	Cat. No.	Unit
100 µg/mL in MeOH	P-116S	1 mL
1000 µg/mL in MeOH	P-116S-10X	1 mL

Tetramethrin

Cyclopropanecarboxylic acid, 2,2-dimethyl-3-(2-methyl-1-propen-1-yl)-, (1,3,4,5,6,7-hexahydro-1,3-dioxo-2H-isoindol-2-yl)methyl ester



CAS 7696-12-0 **MF** C₁₉H₂₅NO₄ **MW** 331.41 **PS** S
SG 1.11 g/cm³ **MP** 60-80 °C **BP** 185-190 °C
FP >200 °C **SOL** M,A,D,H,T,CN,TP

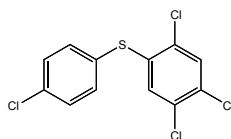
Matrix	Cat. No.	Unit
NEAT	P-406N	10 mg
100 µg/mL in MeOH	P-406S	1 mL

Tetramethylphosphorodiamidic fluoride (I), see Dimefox

Tetramethylthiuram disulfide, see Thiram

**Tetrasul**

4-Chlorophenyl 2,4,5-trichlorophenyl sulfide



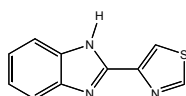
CAS 2227-13-6 **MF** C₁₂H₆Cl₄S **MW** 324.05 **PS** S
SG 1.55 g/cm³ **MP** 146.5-147.5 °C **BP** 408 °C
FP 186 °C **SOL** A,CN,EA

Matrix	Cat. No.	Unit
NEAT	P-552N	10 mg
100 µg/mL in MeOH	P-552S	1 mL

Tetron, see TEPP

Thiabendazole

2-(4-Thiazolyl)benzimidazole



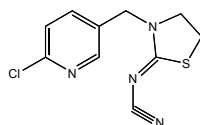
TBZ

CAS 148-79-8 **MF** C₁₀H₇N₃S **MW** 201.25 **PS** S
SG 1.34 g/cm³ **MP** 297 °C
SOL M,A,D,H,T,CN,TP,EA

Matrix	Cat. No.	Unit
NEAT	P-068N	10 mg
100 µg/mL in MeOH	P-068S	1 mL

Thiacloprid

(3-((6-Chloro-3-pyridinyl)methyl)-2-thiazolidinylidene)cyanamide



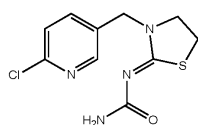
Calypso

CAS 111988-49-9 **MF** C₁₀H₁₀ClN₄S **MW** 252.72
PS S **SG** 1.46 g/cm³ **MP** 136 °C
SOL W,H,D,A,EA,CN,DMSO,M

Matrix	Cat. No.	Unit
NEAT	P-838N	10 mg
100 µg/mL in AcCN	P-838S-CN	1 mL

Thiacloprid-amide

[3-(6-Chloro-3-pyridylmethyl)thiazolidin-2-ylidene]urea

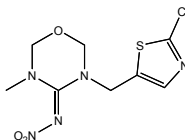


CAS 676228-91-4 **MF** C₁₀H₁₁ClN₄OS **MW** 270.74
PS S **SG** 1.50 g/cm³ **MP** 171 °C **BP** >400 °C
FP >200 °C **SOL** M,CN

Matrix	Cat. No.	Unit
100 µg/mL in AcCN	P-1223S	1 mL

Thiamethoxam

3-(2-Chloro-5-thiazolylmethyl)tetrahydro-5-methyl-N-nitro-4H-1,3,5-oxadiazin-4-imine



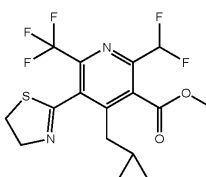
CAS 153719-23-4 **MF** C₈H₁₀ClN₅O₃ **MW** 291.72
PS S **SG** 0.47 g/cm³ **MP** 140 °C
SOL W,A,EA,D,T,M,H,CN

Matrix	Cat. No.	Unit
NEAT	P-866N	10 mg
100 µg/mL in AcCN	P-866S-CN	1 mL

Thiazophyr, see Thiazopyr

Thiazopyr

Methyl 2-difluoromethyl-5-(4,5-dihydro-1,3-thiazol-2-yl)-4-isobutyl-6-trifluoromethylnicotinate



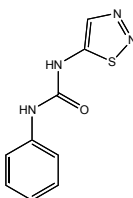
Thiazophyr

CAS 117718-60-2 **MF** C₁₆H₁₇F₅N₂O₂S **MW** 396.38
PS S **SG** 1.37 g/cm³ **MP** 77-78 °C **SOL** M,H,A

Matrix	Cat. No.	Unit
NEAT	P-808N	10 mg
100 µg/mL in MeOH	P-808S	1 mL

Thidiazuron

1-Phenyl-3-(1,2,3-thiadiazol-5-yl)urea

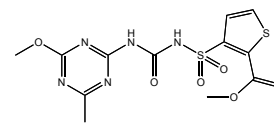


CAS 51707-55-2 **MF** C₉H₈N₄OS **MW** 220.25 **PS** S
SG 1.51 g/cm³ **MP** 210 °C **SOL** M,T,A,EA,H,D,CN

Matrix	Cat. No.	Unit
NEAT	P-369N	10 mg
100 µg/mL in MeOH	P-369S	1 mL

Thifensulfuron methyl

Methyl-3-(4-methoxy-6-methyl-1,3,5-triazin-2-yl)carbamoylsulfamoyl)thiophene-2-carboxylate



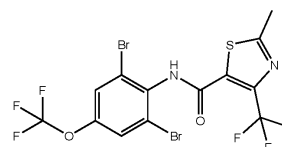
Harmony

CAS 79277-27-3 **MF** C₁₂H₁₃N₅O₆S₂ **MW** 387.39
PS S **SG** 1.58 g/cm³ **MP** 176 °C
SOL W,EA,M,CN,H,A,D

Matrix	Cat. No.	Unit
NEAT	P-468N	10 mg
100 µg/mL in MeOH	P-468S	1 mL

Thifluzamide

2',6'-dibromo-2-methyl-4'-trifluoromethoxy-4-trifluoromethyl-1,3-thiazole-5-carboxanilide



CAS 130000-40-7 **MF** C₁₃H₆Br₂F₆N₂O₂S
MW 528.06 **PS** S **SG** 2.0 g/cm³ **MP** 178 °C
BP Decomp. **FP** 177 °C **SOL** M,A,CN

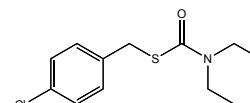
Matrix	Cat. No.	Unit
NEAT	P-1055N	10 mg
100 µg/mL in MeOH	P-1055S	1 mL

Thimet, see Phorate

Thimet sulfone, see Phorate sulfone

Thiobencarb

S-4-Chlorbenzyl diethylthiocarbamate



Benthiocarb

CAS 28249-77-6 **MF** C₁₂H₁₆ClNOS **MW** 257.78
PS L **SG** 1.18 g/cm³ **MP** 3.3 °C **BP** 153 °C
SOL M,A,D,H,CN,TP,EA,T

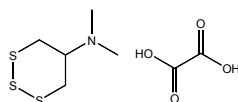
Matrix	Cat. No.	Unit
NEAT	P-180N	10 mg
100 µg/mL in MeOH	P-180S	1 mL
1000 µg/mL in MeOH	P-180S-10X	1 mL



Pesticide Standards

Thiocyclam hydrogen oxalate

N,N-dimethyl-1,2,3-trithian-5-amine
hydrogen oxalate



CAS 31895-22-4 **MF** C₇H₁₃N₂O₄S₃ **MW** 271.38
PS S **SG** 0.60 g/cm³ **MP** 125-128 °C **BP** 281 °C
FP 124 °C **SOL** DMSO,M,CN,A,EA,H

Matrix	Cat. No.	Unit
100 µg/mL in MeOH	P-688S	1 mL

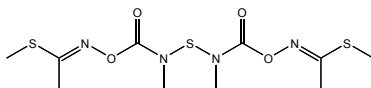
alpha-Thiodan, see *Endosulfan I*

Thiodan II, see *Endosulfan II*

Thiodemeton, see *Disulfoton*

Thiodicarb

Bis[1-methylthioacetaldehyde-O-
(N-methylcarbamoyl)oximino]sulfide

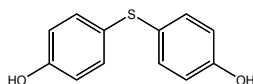


CAS 59669-26-0 **MF** C₁₁H₁₈N₄O₄S₃ **MW** 354.47
PS S **SG** 1.47 g/cm³ **MP** 170 °C
SOL D,A,T,M,H,CN

Matrix	Cat. No.	Unit
NEAT	P-477N	10 mg
100 µg/mL in MeOH	P-477S	1 mL

4,4'-Thiodiphenol

4,4'-Thiodiphenol

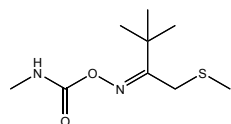


CAS 2664-63-3 **MF** C₁₂H₁₀O₂S **MW** 218.27 **PS S**
SG 1.37 g/cm³ **MP** 154-156 °C **BP** 453 °C
FP 220 °C **SOL** M

Matrix	Cat. No.	Unit
NEAT	P-117N	10 mg
100 µg/mL in MeOH	P-117S	1 mL
1000 µg/mL in MeOH	P-117S-10X	1 mL

Thiofanox

3,3-Dimethyl-1-methylthiobutanone
O-methylcarbamoyloxime

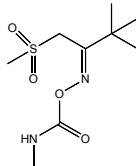


CAS 39196-18-4 **MF** C₈H₁₆N₂O₃S **MW** 218.32
PS S **SG** 1.05 g/cm³ **MP** 57-58 °C **SOL** CN,M,W

Matrix	Cat. No.	Unit
NEAT	P-266N	10 mg
100 µg/mL in MeOH	P-266S	1 mL

Thiofanox sulfone

3,3-Dimethyl-1-(methylsulfonyl)-2-butanone
O-((methylamino)carbonyl)oxime

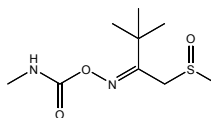


CAS 39184-59-3 **MF** C₉H₁₈N₂O₄S **MW** 250.32
SG 1.18 g/cm³ **SOL** CN

Matrix	Cat. No.	Unit
10 µg/mL in AcCN	P-839S-CN-0.1X	1 mL

Thiofanox sulfoxide

3,3-Dimethyl-1-(methylsulfinyl)-2-butanone
O-((methylamino)carbonyl)oxime

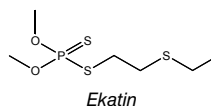


CAS 39184-27-5 **MF** C₉H₁₈N₂O₃S **MW** 234.32
PS S **SG** 1.16 g/cm³ **MP** 88-89 °C **SOL** M,CN

Matrix	Cat. No.	Unit
NEAT	P-702N	10 mg
100 µg/mL in MeOH	P-702S	1 mL

Thiometon

2-Ethylthioethyl O,O-dimethyl phosphorodithioate



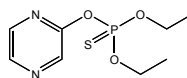
Ekatin

CAS 640-15-3 **MF** C₆H₁₅O₂PS₃ **MW** 246.35 **PS L**
SG 1.21 g/cm³ **BP** 110 °C **SOL** W,M,A,H,T,CN

Matrix	Cat. No.	Unit
NEAT	P-486N	10 mg
100 µg/mL in MeOH	P-486S	1 mL

Thionazin

o,o-Diethyl-o-2-pyrazinylphosphorothioate



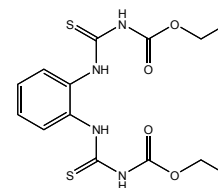
Zinophos

CAS 297-97-2 **MF** C₈H₁₃N₂O₃PS **MW** 248.24 **PS L**
SG 1.21 g/cm³ **MP** -1 °C **BP** 80 °C
SOL M,A,D,H,T,CN

Matrix	Cat. No.	Unit
100 µg/mL in MeOH	P-171S	1 mL

Thiophanate

Diethyl 4,4'-(o-phenylene)bis(3-thioallophanate)

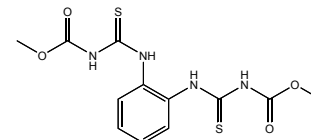


CAS 23564-06-9 **MF** C₁₄H₁₈N₄O₄S₂ **MW** 370.45
PS S **SG** 1.41 g/cm³ **MP** 195 °C **SOL** M,CN

Matrix	Cat. No.	Unit
NEAT	P-321N	10 mg
100 µg/mL in MeOH	P-321S ▲	1 mL
100 µg/mL in AcCN	P-321S-CN	1 mL

Thiophanate-methyl

Dimethyl [(1,2-phenylene)bis-(iminocarbonothionyl)]
bis[carbamate]



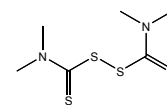
CAS 23564-05-8 **MF** C₁₂H₁₄N₄O₄S₂ **MW** 342.4
PS S **SG** 1.50 g/cm³ **MP** 172 °C
SOL W,A,M,CN,EA,H,T,D

Matrix	Cat. No.	Unit
NEAT	P-349N	10 mg
100 µg/mL in MeOH	P-349S	1 mL

Thiophos, see *Parathion*

Thiram

bis(Dimethylthiocarbamoyl) disulfide



Tetramethylthiuram disulfide

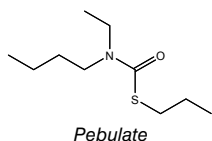
CAS 137-26-8 **MF** C₈H₁₂N₂S₄ **MW** 240.44 **PS S**
SG 1.29 g/cm³ **MP** 156 °C **FP** 149 °C
SOL W,H,M,D,A,EA,CN

Matrix	Cat. No.	Unit
NEAT	P-118N	10 mg
100 µg/mL in MeOH	P-118S	1 mL
1000 µg/mL in MeOH	P-118S-10X	1 mL

▲ Pesticides containing a carboxyl group may autoesterify in Methanol. These standards are intended for use after making the methyl derivative. For analysis of the parent compound we suggest a non-hydroxylic solvent such as Acetonitrile.

**Tillam**

S-Propyl butyl(ethyl)thiocarbamate



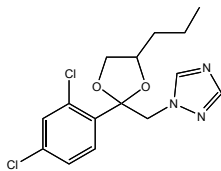
CAS 1114-71-2 **MF** C₁₀H₂₁NOS **MW** 203.35 **PS L**
SG 0.96 g/cm³ **BP** 142 °C
SOL M,A,D,H,CN,TP,EA,T

Matrix	Cat. No.	Unit
NEAT	P-105N	10 mg
100 µg/mL in MeOH	P-105S	1 mL
1000 µg/mL in MeOH	P-105S-10X	1 mL

Tillox, see Benazolin

Tilt

1-(2-(2',4'-Dichlorophenyl)-4-propyl-1,3-dioxolan-2-yl-methyl)-1H-1,2,4-triazole

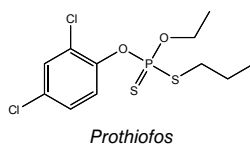


CAS 60207-90-1 **MF** C₁₅H₁₇Cl₂N₃O₂ **MW** 342.22
PS L **SG** 1.39 g/cm³ **BP** 480 °C **FP** 244 °C
SOL M,A,D,H,T,CN,EA,W

Matrix	Cat. No.	Unit
NEAT	P-280N	10 mg
100 µg/mL in MeOH	P-280S	1 mL

Tokuthion

O-2,4-Dichlorophenyl O-ethyl S-propyl phosphorothioate



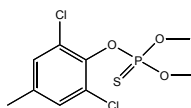
CAS 34643-46-4 **MF** C₁₁H₁₅Cl₂O₂PS₂ **MW** 345.25
PS L **SG** 1.35 g/cm³ **BP** 398 °C **FP** 194 °C
SOL M,A,D,H,T,CN,TP,EA,IPA

Matrix	Cat. No.	Unit
NEAT	P-126N	10 mg
100 µg/mL in MeOH	P-126S	1 mL
1000 µg/mL in Hexane	P-126S-H-10X	1 mL

Tolban, see Profluralin

Tolclofos-methyl

O-(2,6-Dichloro-p-tolyl) O,O-dimethyl phosphorothioate



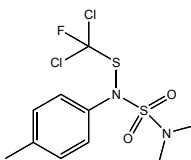
CAS 57018-04-9 **MF** C₉H₇Cl₂O₃PS **MW** 301.13
PS S **SG** 1.40 g/cm³ **MP** 78-80 °C **BP** 338 °C
FP 158 °C **SOL** M,A,D,H,T,CN,TP

Matrix	Cat. No.	Unit
NEAT	P-557N	10 mg
100 µg/mL in MeOH	P-557S	1 mL

Tolyfluuanid metabolite, see DMST

Tolyfluuanide

N-dichlorofluoromethylthio-N',N'-dimethyl-N-p-tolylsulfamide

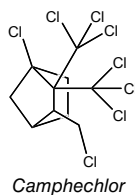


CAS 731-27-1 **MF** C₁₀H₁₃Cl₂FN₂O₂S₂ **MW** 347.26
PS S **SG** 1.50 g/cm³ **MP** 96 °C **BP** 366 °C
FP 175 °C **SOL** M,A,D,T,CN,TP,IPA,EA

Matrix	Cat. No.	Unit
NEAT	P-553N	10 mg
100 µg/mL in MeOH	P-553S	1 mL

Torak, see Dialifos

Tordon, see Picloram

Toxaphene

CAS 8001-35-2 **MF** C₁₀H₁₀Cl₈ **MW** 413.81 **PS S**
SG 1.65 g/cm³ **MP** 65-90 °C
SOL M,A,D,H,T,CN,TP,EA

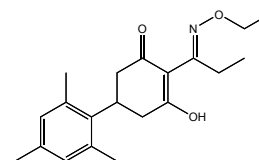
Matrix	Cat. No.	Unit
NEAT	P-093N	10 mg
100 µg/mL in MeOH	P-093S	1 mL
1000 µg/mL in MeOH	P-093S-10X	1 mL
40,000 µg/mL in MeOH	P-093S-40X	1 mL
50,000 µg/mL in MeOH	P-093S-50X	1 mL
1000 µg/mL in Hexane	P-093S-H-10X	1 mL

2,4,5-TP, see Silvex

2,4,5-TP methyl ester, see Silvex methyl ester

Tralkoxydim

2-[1-(ethoxyimino)propyl]-3-hydroxy-5-mesitylcyclohex-2-enone

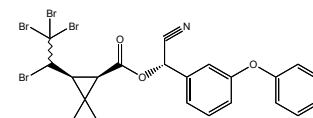


CAS 87820-88-0 **MF** C₂₀H₂₇NO₃ **MW** 329.43 **PS S**
SG 1.09 g/cm³ **BP** 461 °C **SOL** H,M,A,EA,T,D

Matrix	Cat. No.	Unit
NEAT	P-405N	10 mg
100 µg/mL in MeOH	P-405S	1 mL

Tralomethrin

alpha-Cyano-3-phenoxybenzyl 2,2-dimethyl-3-(1,2,2,2-tetrabromoethyl)cyclopropanecarboxylate

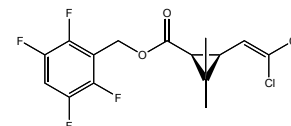


CAS 66841-25-6 **MF** C₂₂H₁₉Br₄NO₃ **MW** 665.01
PS S **SG** 1.70 g/cm³ **MP** 138-148 °C **FP** 63 °C
SOL A,D,T,DMSO,H,CN

Matrix	Cat. No.	Unit
NEAT	P-478N	10 mg
100 µg/mL in MeOH	P-478S	1 mL

Transfluthrin

2,3,5,6-Tetrafluorobenzyl (1R,3S)-3-(2,2-dichlorovinyl)-2,2-dimethylcyclopropanecarboxylate



CAS 118712-89-3 **MF** C₁₅H₁₂Cl₂F₄O₂ **MW** 371.15
PS S **SG** 1.51 g/cm³ **MP** 32 °C **BP** 351 °C
FP 115 °C **SOL** M,CN,T,H,D

Matrix	Cat. No.	Unit
NEAT	P-743N	10 mg
100 µg/mL in MeOH	P-743S	1 mL

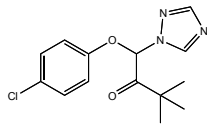
Treflan, see Trifluralin



Pesticide Standards

Triadimefon

1-(4-Chlorophenoxy)-3,3-dimethyl-1-(1H-1,2,4-triazol-1-yl)butan-2-one



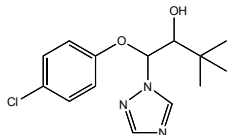
Bayleton

CAS 43121-43-3 **MF** C₁₄H₁₆ClN₃O₂ **MW** 293.75
PS S **SG** 1.28 g/cm³ **MP** 82 °C
SOL M,A,D,H,T,CN,TP,EA,IPA

Matrix	Cat. No.	Unit
NEAT	P-069N	10 mg
100 µg/mL in MeOH	P-069S	1 mL

Triadimenol

(1RS,2RS;1RS,2SR)-1-(4-Chlorophenoxy)-3,3-dimethyl-1-(1H-1,2,4-triazol-1-yl)butan-2-ol

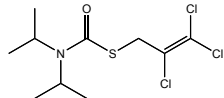


CAS 55219-65-3 **MF** C₁₄H₁₈ClN₃O₂ **MW** 295.76
PS S **SG** 1.24 g/cm³ **MP** 121-127 °C **BP** 465 °C
FP 235 °C **SOL** M,A,T,CN,D,IPA,H

Matrix	Cat. No.	Unit
NEAT	P-361N	10 mg
100 µg/mL in MeOH	P-361S	1 mL

Triallate

S-2,3,3-Trichloroallyl di-isopropyl(thiocarbamate)



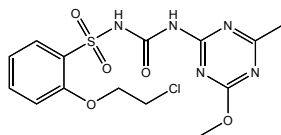
Far-Go

CAS 2303-17-5 **MF** C₁₀H₁₆Cl₃NOS **MW** 304.66
PS S **SG** 1.27g/cm³ **MP** 29 °C **BP** 148-149 °C
SOL M,A,D,H,T,CN,TP,EA

Matrix	Cat. No.	Unit
NEAT	P-268N	10 mg
100 µg/mL in MeOH	P-268S	1 mL

Triasulfuron

2-(2-Chloroethoxy)-N-(((4-methoxy-6-methyl-1,3,5-triazin-2-yl)amino)carbonyl)benzenesulfonamide



Amber

CAS 82097-50-5 **MF** C₁₄H₁₆ClN₅O₅S **MW** 401.83
PS S **SG** 1.47 g/cm³ **MP** 178.1 °C (Decomp.)
SOL M,A,D,H,T,CN,TP,EA

Matrix	Cat. No.	Unit
NEAT	P-592N	10 mg
100 µg/mL in MeOH	P-592S	1 mL

1,2,4-Triazole

1,2,4-Triazole



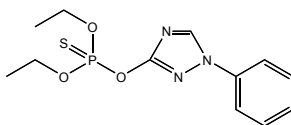
Pyrrodiazole

CAS 288-88-0 **MF** C₂H₃N₃ **MW** 69.07 **PS S**
SG 1.27 g/cm³ **MP** 119-121 °C **BP** 260 °C
FP 139 °C **SOL** M

Matrix	Cat. No.	Unit
NEAT	P-627N	10 mg
100 µg/mL in MeOH	P-627S	1 mL

Triazophos

O,O-Diethyl O-(1-phenyl-1H-1,2,4-triazol-3-yl) phosphorothioate

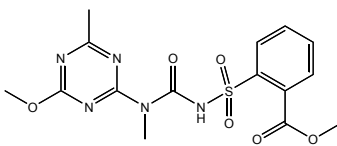


CAS 24017-47-8 **MF** C₁₀H₁₆N₃O₃PS **MW** 313.31
PS L **SG** 1.25 g/cm³ **MP** 0-5 °C **FP** 25 °C
SOL A,D,M,IPA,EA,H,T,CN,TP

Matrix	Cat. No.	Unit
NEAT	P-334N	10 mg
100 µg/mL in MeOH	P-334S	1 mL

Tribenuron-methyl

Methyl 2-[4-methoxy-6-methyl-1,3,5-triazin-2-yl(methyl)carbamoylsulfomoyl]benzoate



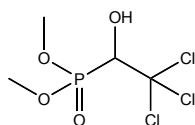
CAS 101200-48-0 **MF** C₁₅H₁₇N₃O₆S **MW** 395.39
PS S **SG** 1.15 g/cm³ **MP** 141 °C **BP** 377 °C
FP 182 °C **SOL** W,A,CN,EA,M,D

Matrix	Cat. No.	Unit
NEAT	P-666N	10 mg
100 µg/mL in MeOH	P-666S	1 mL

Tribufos, see DEF 6

Trichlorfon

Dimethyl 2,2,2-trichloro-1-hydroxyethylphosphonate



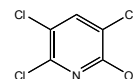
Chlorophos, Tugon

CAS 52-68-6 **MF** C₂H₂Cl₃O₄P **MW** 257.44 **PS S**
SG 1.73 g/cm³ **MP** 78 °C
SOL M,A,D,H,T,CN,TP,EA,W,IPA

Matrix	Cat. No.	Unit
NEAT	P-044N	10 mg
100 µg/mL in MeOH	P-044S	1 mL

3,5,6-Trichloro-2-pyridinol

2,3,5-Trichloro-6-hydroxypyridine

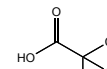


CAS 6515-38-4 **MF** C₅H₂Cl₃NO **MW** 198.43 **PS S**
SG 1.67 g/cm³ **MP** 172-174 °C **BP** 255 °C
FP 108 °C **SOL** M

Matrix	Cat. No.	Unit
NEAT	P-626N	10 mg
100 µg/mL in MeOH	P-626S	1 mL

Trichloroacetic acid

Trichloroacetic acid

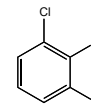


TCA

CAS 76-03-9 **MF** C₂HCl₃O₂ **MW** 163.39 **PS S**
SG 1.6 g/cm³ **MP** 58 °C **BP** 198 °C **SOL** M,CN

Matrix	Cat. No.	Unit
NEAT	P-459N	10 mg
100 µg/mL in MeOH	P-459S	1 mL
100 µg/mL in AcCN	P-459S-CN	1 mL

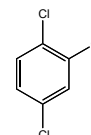
1,2,3-Trichlorobenzene



CAS 87-61-6 **MF** C₆H₃Cl₃ **MW** 181.45 **PS S**
SG 1.69 g/cm³ **MP** 50-54 °C **BP** 218-219 °C
FP 126 °C **SOL** M,A,D,H,T,TP

Matrix	Cat. No.	Unit
NEAT	P-1002N	10 mg
100 µg/mL in Isooctane	P-1002S-TP	1 mL

1,2,4-Trichlorobenzene

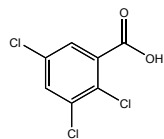


CAS 120-82-1 **MF** C₆H₃Cl₃ **MW** 181.45 **PS L**
SG 1.45 g/cm³ **MP** 17 °C **BP** 213 °C **FP** 1050 °C
SOL M,A,D,H,T,TP

Matrix	Cat. No.	Unit
NEAT	P-1004N	10 mg
100 µg/mL in MeOH	P-1004S	1 mL

**2,3,5-Trichlorobenzoic acid**

2,3,5-Trichlorobenzoic acid

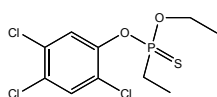


CAS 50-73-7 **MF** C₇H₃Cl₃O₂ **MW** 225.46 **PS** S
SG 1.64 g/cm³ **MP** 166-167 °C **BP** 329 °C
FP 153 °C **SOL** M,CN

Matrix	Cat. No.	Unit
NEAT	P-508N	10 mg
100 µg/mL in MeOH	P-508S ▲	1 mL
100 µg/mL in AcCN	P-508S-CN	1 mL

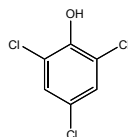
Trichloronate

O-Ethyl O-2,4,5-trichlorophenyl ethylphosphonothioate

*Agritox*

CAS 327-98-0 **MF** C₁₀H₁₂Cl₃O₂PS **MW** 333.6 **PS** L
SG 1.36 g/cm³ **BP** 380 °C **FP** 179 °C
SOL M,A,D,H,T,CN,TP,EA

Matrix	Cat. No.	Unit
NEAT	P-127N	10 mg
100 µg/mL in MeOH	P-127S	1 mL

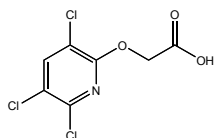
2,4,6-Trichlorophenol

CAS 88-06-2 **MF** C₆H₃Cl₃O **MW** 197.45 **PS** S
SG 1.49 g/cm³ **MP** 65 °C **BP** 246 °C **FP** 99 °C
SOL M,A,D,T,CN,EA

Matrix	Cat. No.	Unit
NEAT	P-1006N	10 mg
100 µg/mL in MeOH	P-1006S	1 mL

Triclopyr

3,5,6-Trichloro-2-pyridyloxyacetic acid

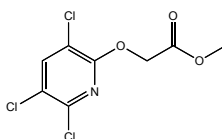
*Garlon*

CAS 55335-06-3 **MF** C₇H₄Cl₃NO₃ **MW** 256.47
PS S **SG** 1.85 g/cm³ **MP** 149 °C **BP** ~290 °C
SOL W,A,CN,H,T,D,M,EA

Matrix	Cat. No.	Unit
NEAT	P-289N	10 mg
100 µg/mL in MeOH	P-289S ▲	1 mL
100 µg/mL in AcCN	P-289S-CN	1 mL

Triclopyr methyl ester

3,4,6-Trichloro-2-pyridyloxyacetic acid methyl ester

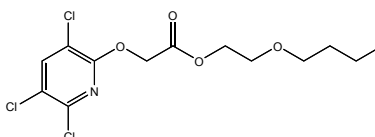
*Methyl 3,4,6-Trichloro-2-pyridyloxyacetate*

CAS 60825-26-5 **MF** C₈H₆Cl₃NO₃ **MW** 270.5 **PS** S
SG 1.51 g/cm³ **MP** 103-104 °C **BP** 313 °C
FP 143 °C **SOL** M,A,D,H

Matrix	Cat. No.	Unit
100 µg/mL in MeOH	P-291S	1 mL

Triclopyr-2-butoxy ethyl ester

Acetic acid, ((3,5,6-trichloro-2-pyridinyl)oxy)-, 2-butoxyethyl ester

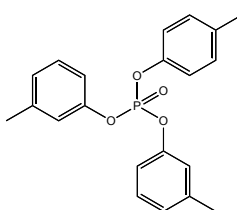


CAS 64700-56-7 **MF** C₁₃H₁₆Cl₃NO₄ **MW** 356.63
PS L **SG** 1.33 g/cm³ **BP** >150 °C **FP** 64 °C
SOL CN

Matrix	Cat. No.	Unit
NEAT	P-703N	10 mg
100 µg/mL in AcCN	P-703S-CN	1 mL

Tricresyl phosphate

Tritolyl phosphate

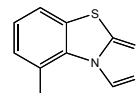
*Tricresylphosphate*

CAS 1330-78-5 **MF** C₂₁H₂₁O₄P **MW** 368.36
PS L **SG** 1.17 g/cm³ **MP** < -40 °C **BP** 265 °C
FP >110 °C **SOL** M,H,T,CN

Matrix	Cat. No.	Unit
NEAT	P-209N	10 mg
100 µg/mL in MeOH	P-209S	1 mL

*Tricresylphosphate, see Tricresyl phosphate***Tricyclazole**

5-Methyl-1,3,4-triazolo[3,4-b][1,3]benzothiazole

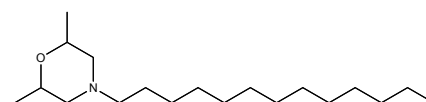
*Beam*

CAS 41814-78-2 **MF** C₉H₇N₃S **MW** 189.24 **PS** S
SG 1.40 g/cm³ **MP** 185 °C **BP** 275 °C
SOL M,A,D,H,W,EA

Matrix	Cat. No.	Unit
NEAT	P-090N	10 mg
100 µg/mL in MeOH	P-090S	1 mL

*Tricyclohexitin hydroxide, see Cyhexatin***Tridemorph**

2,6-Dimethyl-4-tridecylmorpholine

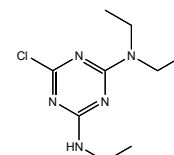


CAS 24602-86-6 **MF** C₁₉H₃₉NO **MW** 297.52 **PS** L
SG 0.86 g/cm³ **BP** 134 °C **SOL** M,CN

Matrix	Cat. No.	Unit
NEAT	P-307N	10 mg
100 µg/mL in MeOH	P-307S	1 mL

Trietazine

2-Chloro-4-diethylamino-6-ethylamino-1,3,5-triazine

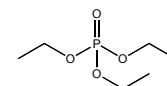


CAS 1912-26-1 **MF** C₉H₁₆ClN₃ **MW** 229.71 **PS** S
SG 1.22 g/cm³ **MP** 100-101 °C **BP** 374 °C
FP 180 °C **SOL** M,A,CN

Matrix	Cat. No.	Unit
NEAT	P-492N	10 mg
100 µg/mL in MeOH	P-492S	1 mL

Triethylphosphate

Triethylphosphate



CAS 78-40-0 **MF** C₆H₁₅O₄P **MW** 182.15 **PS** L
SG 1.07 g/cm³ **MP** -56.0 °C **BP** 215 °C **FP** 116 °C
SOL M,D,H,TP,EA

Matrix	Cat. No.	Unit
NEAT	P-335N	10 mg
100 µg/mL in MeOH	P-335S	1 mL

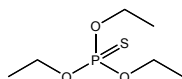
▲ Pesticides containing a carboxyl group may autoesterify in Methanol. These standards are intended for use after making the methyl derivative. For analysis of the parent compound we suggest a non-hydroxylic solvent such as Acetonitrile.



Pesticide Standards

o,o,o-Triethylphosphorothioate

O,O,O-Triethylphosphorothioate

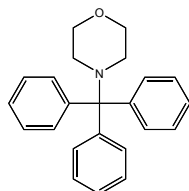


CAS 126-68-1 **MF** C₆H₁₅O₃PS **MW** 198.22 **PS** L
SG 1.08 g/cm³ **BP** 220 °C **FP** 225 °C
SOL M,A,D,H,CN

Matrix	Cat. No.	Unit
NEAT	P-172N	10 mg
100 µg/mL in MeOH	P-172S	1 mL
1000 µg/mL in Hexane	P-172S-H-10X	1 mL

Trifenmorph

4-(Triphenylmethyl)morpholine



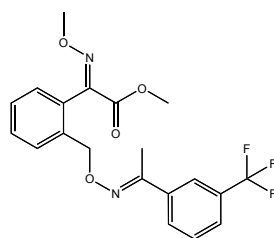
4-Tritylmorpholine

CAS 1420-06-0 **MF** C₂₃H₂₅NO **MW** 329.43 **PS** S
SG 1.12 g/cm³ **MP** 174-176 °C **BP** 432 °C
FP 126 °C **SOL** M

Matrix	Cat. No.	Unit
NEAT	P-300N	10 mg
100 µg/mL in MeOH	P-300S	1 mL

Trifloxystrobin

Methyl-(2Z)-2-methoxyimino-2-[2-[[1-[3-(trifluoromethyl)phenyl]ethylideneamino]oxymethyl]phenyl]acetate

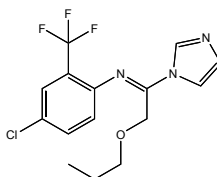


CAS 141517-21-7 **MF** C₂₀H₁₉F₃N₂O₄ **MW** 408.37
PS S **SG** 1.22 g/cm³ **MP** 158-159 °C **BP** 470 °C
FP 238 °C **SOL** M,A,D,T,CN,H,EA

Matrix	Cat. No.	Unit
NEAT	P-867N	10 mg
100 µg/mL in AcCN	P-867S-CN	1 mL

Triflumizole

1-(1-((4-Chloro-2-(trifluoromethyl)phenyl)imino)-2-propoxyethyl)-1H-imidazole

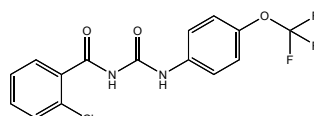


CAS 68694-11-1 **MF** C₁₅H₁₅ClF₃N₃O **MW** 345.75
PS S **SG** 1.38 g/cm³ **MP** 81 °C **BP** ~230 °C
FP >230 °C **SOL** W,H,A,M,CN

Matrix	Cat. No.	Unit
100 µg/mL in AcCN	P-479S-CN	1 mL

Triflumuron

2-chloro-N-[[[4-(trifluoromethoxy)phenyl]amino]carbonyl]benzamide

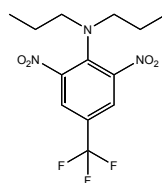


CAS 64628-44-0 **MF** C₁₅H₁₀ClF₃N₂O₃ **MW** 358.7
PS S **SG** 1.48 g/cm³ **MP** 195 °C
SOL D,IPA,T,M,A,EA,CN

Matrix	Cat. No.	Unit
NEAT	P-689N	10 mg
100 µg/mL in MeOH	P-689S	1 mL

Trifluralin

alpha,alpha,alpha-Trifluoro-2,6-dinitro-N,N-dipropyl-p-toluidine



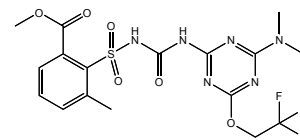
Triflan

CAS 1582-09-8 **MF** C₁₃H₁₆F₃N₃O₄ **MW** 335.28
PS S **SG** 1.36 g/cm³ **MP** 49 °C **BP** 96 °C
FP 151 °C **SOL** M,A,D,H,T,CN,TP,EA

Matrix	Cat. No.	Unit
NEAT	P-197N	10 mg
100 µg/mL in MeOH	P-197S	1 mL
1000 µg/mL in MeOH	P-197S-10X	1 mL

Triflurosulfuron-methyl

Methyl-2-[4-(dimethylamino)-6-(2,2,2-trifluoroethoxy)-1,3,5-triazin-2-ylaminocarbonylamino]sulfonate-3-methylbenzoate

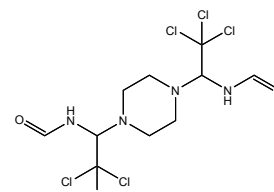


CAS 126535-15-7 **MF** C₁₇H₁₉F₃N₆O₆S **MW** 492.43
PS S **SG** 1.45 g/cm³ **MP** 160 °C **FP** 150 °C
SOL W,D,A,M,T,CN,EA,H

Matrix	Cat. No.	Unit
NEAT	P-840N	10 mg
100 µg/mL in AcCN	P-840S-CN	1 mL

Triforine

N,N'-[Piperazine-1,4-diybis((trichloromethyl)methylene)]diformamide

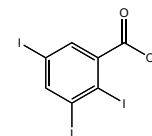


CAS 26644-46-2 **MF** C₁₀H₁₄Cl₆N₄O₂ **MW** 434.96
PS S **SG** 1.55 g/cm³ **MP** 155 °C
SOL DMSO,A,D,M,CN

Matrix	Cat. No.	Unit
NEAT	P-308N	10 mg
100 µg/mL in MeOH	P-308S	1 mL

2,3,5-Triiodobenzoic acid

2,3,5-Triiodobenzoic acid



CAS 88-82-4 **MF** C₇H₃I₃O₂ **MW** 499.81 **PS** S
SG 2.97 g/cm³ **MP** 224-226 °C **BP** 457 °C
FP 230 °C **SOL** M,CN

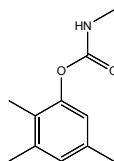
Matrix	Cat. No.	Unit
NEAT	P-507N	10 mg
100 µg/mL in MeOH	P-507S ▲	1 mL
100 µg/mL in AcCN	P-507S-CN	1 mL

▲ Pesticides containing a carboxyl group may autoesterify in Methanol. These standards are intended for use after making the methyl derivative. For analysis of the parent compound we suggest a non-hydroxylic solvent such as Acetonitrile.



2,3,5-Trimethacarb

2,3,5-Trimethylphenyl methylcarbamate

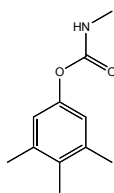


CAS 2655-15-4 **MF** C₁₁H₁₅NO₂ **MW** 193.24 **PS** S
SG 1.05 g/cm³ **MP** 122-123 °C **BP** 288 °C
FP 128 °C **SOL** M,A

Matrix	Cat. No.	Unit
NEAT	P-515N	10 mg
100 µg/mL in MeOH	P-515S	1 mL

3,4,5-Trimethacarb

3,4,5-Trimethylphenyl methylcarbamate



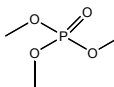
3,4,5-Trimethylphenyl methylcarbamate acid ester

CAS 2686-99-9 **MF** C₁₁H₁₅NO₂ **MW** 193.24 **PS** S
SG 1.05 g/cm³ **MP** 105-114 °C **BP** 295 °C
FP 132 °C **SOL** M,A,CN

Matrix	Cat. No.	Unit
NEAT	P-516N	10 mg
100 µg/mL in MeOH	P-516S	1 mL

Trimethyl phosphate

Phosphoric acid, trimethyl ester

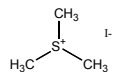


CAS 512-56-1 **MF** C₃H₉O₄P **MW** 140.07 **PS** L
SG 1.20 g/cm³ **MP** -46 °C **BP** 197 °C **FP** 107 °C
SOL M,D,H,EA

Matrix	Cat. No.	Unit
NEAT	P-210N	10 mg
100 µg/mL in MeOH	P-210S	1 mL

3,4,5-Trimethylphenyl methylcarbamate acid ester,
 see 3,4,5-Trimethacarb

Trimethylsulfonium iodide

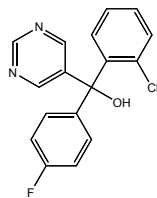


CAS 2181-42-2 **MF** C₃H₉IS **MW** 204.07 **PS** S
MP 215-220 °C **SOL** M

Matrix	Cat. No.	Unit
NEAT	P-1016N	10 mg
100 µg/mL in MeOH	P-1016S	1 mL

Trimidal

5-(2-Chloro-4'-fluorobenzhydryl)-
 4-hydroxypyrimidine

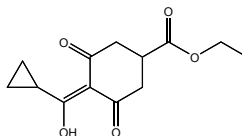


Nuarimol

CAS 63284-71-9 **MF** C₁₃H₁₂ClFN₂O **MW** 314.74
PS S **SG** 0.70 g/cm³ **MP** 126 °C **SOL** A,M,CN

Matrix	Cat. No.	Unit
NEAT	P-422N	10 mg
100 µg/mL in MeOH	P-422S	1 mL

Trinexapac-ethyl



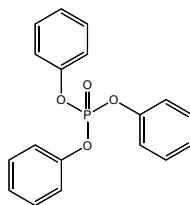
CAS 95266-40-3 **MF** C₁₃H₁₆O₅ **MW** 252.26 **PS** S
SG 1.31 g/cm³ **MP** 32-36 °C **BP** 270 °C
FP >200 °C **SOL** W,A,T,H,M,CN

Matrix	Cat. No.	Unit
NEAT	P-1034N	10 mg
100 µg/mL in MeOH	P-1034S	1 mL

Triphenyl phosphate, see Triphenylphosphate

Triphenylphosphate

Phosphoric acid, triphenyl ester



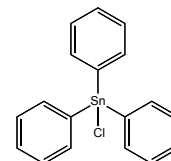
Triphenyl phosphate

CAS 115-86-6 **MF** C₁₈H₁₅O₄P **MW** 326.28 **PS** S
SG 1.27 g/cm³ **MP** 50 °C **BP** 370 °C **FP** 220 °C
SOL M,A,D,H,T,CN,TP

Matrix	Cat. No.	Unit
NEAT	P-192N	10 mg
100 µg/mL in MeOH	P-192S	1 mL

Triphenyltin chloride

Chlorotriphenylstannane



Fentin chloride

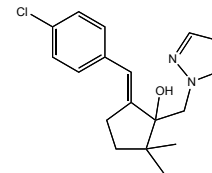
CAS 639-58-7 **MF** C₁₈H₁₅Cl₂Sn **MW** 385.47 **PS** S
MP 97-107 °C **BP** 397 °C **FP** 200 °C **SOL** M,D

Matrix	Cat. No.	Unit
NEAT	P-526N	10 mg
100 µg/mL in MeOH	P-526S	1 mL

Trithion, see Carbophenothion

Triticonazole

(±)-(E)-5-(4-chlorobenzylidene)-2,2-dimethyl-1-(1H-1,2,4-triazol-1-ylmethyl)cyclopentanol



CAS 131983-72-7 **MF** C₁₇H₂₀ClN₃O **MW** 317.81
SOL H,A,M,T,CN

Matrix	Cat. No.	Unit
10 µg/mL in TP	P-868S-TP-0.1X	1 mL

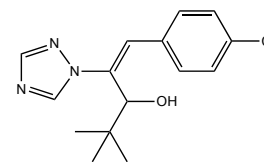
4-Tritylmorpholine, see Trifenmorph

Trizilin, see Nitrofen

Tugon, see Trichlorfon

Uniconazole

1H-1,2,4-Triazole-1-ethanol, b-[(4-chlorophenyl)methylene]-a-(1,1-dimethylethyl)-



CAS 83657-22-1 **MF** C₁₅H₁₈ClN₃O **MW** 291.78
PS S **SG** 1.18 g/cm³ **MP** 152-153 °C
BP 474-475 °C **FP** 240 °C **SOL** M,CN,H

Matrix	Cat. No.	Unit
100 µg/mL in AcCN	P-1092S-CN	1 mL

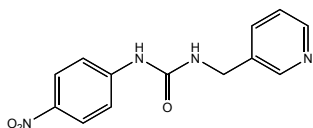
Urethane, see Ethyl carbamate



Pesticide Standards

Vacor

1-(3-Pyridylmethyl)-3-(4-nitrophenyl)urea



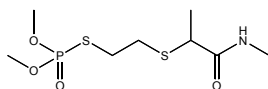
Pyrinuron

CAS 53558-25-1 **MF** C₉H₁₂N₂O₃ **MW** 272.26 **PS** S
SG 1.38 g/cm³ **MP** 223-225 °C **BP** 274 °C
FP 240 °C **SOL** M,CN

Matrix	Cat. No.	Unit
NEAT	P-240N	10 mg
100 µg/mL in MeOH	P-240S	1 mL

Vamidothion

O,O-Dimethyl S-2-(1-methylcarbamoylthio)ethyl phosphorothioate



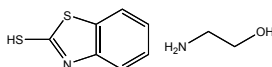
Kilval

CAS 2275-23-2 **MF** C₈H₁₈NO₂PS₂ **MW** 287.34
PS S **SG** 1.24 g/cm³ **MP** 43 °C
SOL T,EA,CN,D,W,M,A

Matrix	Cat. No.	Unit
NEAT	P-350N	10 mg
100 µg/mL in MeOH	P-350S	1 mL

Vanicide-20S

Phorate sulfonate



CAS N/A **MF** C₇H₇NS₂•C₂H₇NO **MW** 228.34 **PS** S
SOL M,A,T

Matrix	Cat. No.	Unit
NEAT	P-073N	10 mg
100 µg/mL in MeOH	P-073S	1 mL

Vapona, see *Dichlorvos*

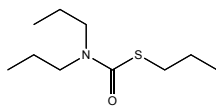
Vegadex, see *Sulfallate*

Vendex, see *Fenbutatin oxide*

Vernam, see *Vernolate*

Vernolate

S-Propyl dipropylthiocarbamate



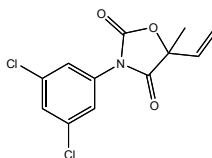
Vernam

CAS 1929-77-7 **MF** C₁₀H₂₁NOS **MW** 203.38 **PS** L
SG 0.95 g/cm³ **BP** 258 °C **SOL** M,A,H,CN,EA

Matrix	Cat. No.	Unit
NEAT	P-111N	10 mg
100 µg/mL in MeOH	P-111S	1 mL

Vinclozolin

(RS)-3-(3,5-Dichlorophenyl)-5-methyl-5-vinyl-1,3-oxazolidine-2,4-dione



CAS 50471-44-8 **MF** C₁₂H₉Cl₂NO₃ **MW** 286.11
PS S **SG** 1.51 g/cm³ **MP** 107-110 °C **BP** 131 °C
SOL M,A,D,H,T,CN,TP,EA

Matrix	Cat. No.	Unit
NEAT	P-122N	10 mg
100 µg/mL in MeOH	P-122S	1 mL
1000 µg/mL in MeOH	P-122S-10X	1 mL

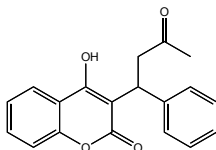
Voltage, see *Pyraclofos*

Vulcan, see *Flumioxazin*

Vydate, see *Oxamyl*

Warfarin

(RS)-4-hydroxy-3-(3-oxo-1-phenylbutyl)coumarin

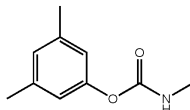


CAS 81-81-2 **MF** C₁₉H₁₆O₄ **MW** 308.33 **PS** S
SG 1.31 g/cm³ **MP** 162-164 °C **BP** 515 °C
FP 189 °C **SOL** A,M,EA

Matrix	Cat. No.	Unit
NEAT	P-076N	10 mg
100 µg/mL in MeOH	P-076S	1 mL

XMC

3,5-Xylyl methylcarbamate



CAS 2655-14-3 **MF** C₁₀H₁₃NO₂ **MW** 179.22 **PS** S
MP 99 °C **SOL** M

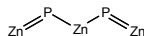
Matrix	Cat. No.	Unit
NEAT	P-1085N	10 mg
100 µg/mL in MeOH	P-1085S	1 mL

Zectran, see *Mexacarbate*

Zinc bis(dimethylthiocarbamate), see *Ziram*

Zinc phosphide

Zinc phosphide



Phosvin

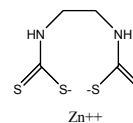
CAS 1314-84-7 **MF** P₂Zn₃ **MW** 258.12 **PS** S
SG 4.55 g/cm³ **MP** 420 °C **BP** 1100 °C **SOL** M,A

Matrix	Cat. No.	Unit
NEAT	P-527N	10 mg

Zinc propylenebis(dithiocarbamate), see *Propineb*

Zineb

Zinc ethylenebis(dithiocarbamate)



Zn⁺⁺

1,2-Ethanedithiolbis(dithiocarbamate) acid, zinc complex, Lonacol

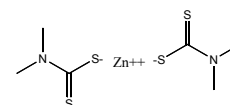
CAS 12122-67-7 **MF** C₄H₈N₂S₄•Zn **MW** 275.76
PS S **SG** 1.74 g/cm³ **MP** 157 °C **FP** 90 °C **SOL** M

Matrix	Cat. No.	Unit
NEAT	P-098N	10 mg

Zinophos, see *Thionazin*

Ziram

Zinc dimethyldithiocarbamate



Zinc bis(dimethyldithiocarbamate)

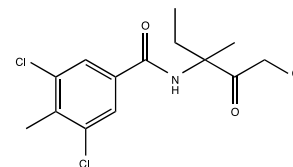
CAS 137-30-4 **MF** C₈H₁₂N₂S₂Zn **MW** 305.83 **PS** S
SG 1.66 g/cm³ **MP** 246 °C **FP** 93 °C
SOL A,M,T,H,EA

Matrix	Cat. No.	Unit
NEAT	P-324N	10 mg
100 µg/mL in MeOH	P-324S	1 mL

Zolone, see *Phosalone*

Zoxamide

3,5-Dichloro-N-(3-chloro-1-ethyl-1-methyl-2-oxopropyl)-4-methylbenzamide



CAS 156052-68-5 **MF** C₁₄H₁₆Cl₃NO₂ **MW** 336.64
PS S **SG** 1.38 g/cm³ **MP** 159-162 °C
SOL A,CN,EA

Matrix	Cat. No.	Unit
100 µg/mL in AcCN	P-970S-CN	1 mL

Zymoxanil, see *Cymoxanil*



Additional Pesticides

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Pesticides and Herbicides

Kits & Mixtures, Triazines and Phenylureas

Pesticide Kits and Mixtures

Neat Pesticide Kit

Z-004-SET

 V-Rated packaging surcharge
applies for international shipments

Set of 20 x 10 mg

Aldrin (01)	p,p'-DDE (08)	Lindane (γ -BHC) (14)
α -BHC (02)	o,p'-DDT (09)	Malathion (15)
β -BHC (03)	p,p'-DDT (10)	Methoxychlor (16)
δ -BHC (04)	Dieldrin (11)	Mirex (17)
o,p'-DDD (05)	Heptachlor (12)	Parathion (18)
p,p'-DDD (06)	Heptachlor epoxide (Isomer B) (13)	Carbaryl (19)
o,p'-DDE (07)		Toxaphene (20)

Pesticide (Solid Waste) Kit

Z-017-SET
Set of 6 x 10 mg

2,4-Dichlorophenoxyacetic acid (2,4-D acid)	Lindane	Silvex
Endrin	Methoxychlor	Toxaphene

Pesticide Mixture for Evaluating GC Columns

M-100
1 x 1 mL

At stated conc. in Isooctane

13 comps.

Aldrin (0.050 μ g/mL)	p,p'-DDT (0.260 μ g/mL)
α -BHC (0.025 μ g/mL)	Dieldrin (0.120 μ g/mL)
β -BHC (0.100 μ g/mL)	Endrin (0.200 μ g/mL)
o,p'-DDD (0.200 μ g/mL)	Heptachlor (0.025 μ g/mL)
p,p'-DDD (0.190 μ g/mL)	Heptachlor epoxide (0.080 μ g/mL)
p,p'-DDE (0.100 μ g/mL)	(Isomer B)
o,p'-DDT (0.225 μ g/mL)	Lindane (γ -BHC) (0.025 μ g/mL)

Technical Note

Designed for evaluating the ability of a column to separate pesticides and their degradation products.

Pesticides in Solutions (Individual and Kits)

Compound	Conc. (in Isooctane)	Cat. No.
Aldrin	200 ng/ μ L	P-002S-1
	2 ng/ μ L	P-002S-2
Chlordane	200 ng/ μ L	P-017S-1
	2 ng/ μ L	P-017S-2
2,4-D methyl ester	200 ng/ μ L	P-021S-1
	200 ng/ μ L	P-027S-1
p,p'-DDE	2 ng/ μ L	P-027S-2
	200 ng/ μ L	P-029S-1
p,p'-DDT	2 ng/ μ L	P-029S-2
	200 ng/ μ L	P-037S-1
Dieldrin	2 ng/ μ L	P-037S-2
	200 ng/ μ L	P-045S-1
Endrin	2 ng/ μ L	P-045S-2
	200 ng/ μ L	P-053S-1
Heptachlor	2 ng/ μ L	P-053S-2
	200 ng/ μ L	P-059S-1
Lindane	2 ng/ μ L	P-059S-2
	200 ng/ μ L	P-064S-1
Methoxychlor	2 ng/ μ L	P-064S-2
	200 ng/ μ L	P-115S-1
Silvex methyl ester	200 ng/ μ L	P-115S-1
Toxaphene	200 ng/ μ L	P-093S-1

 Set of above 21 pesticides (21 x 1 mL) Z-023-SET
At stated concentrations

Technical Note

Convenient concentrations in isooctane for use with different GC detectors. The concentrated solutions are suited for FID & TC detectors. The diluted solutions are suited for EC detectors.

Herbicide Kit and Mixtures

Herbicide Kit

Z-031-SET

0.1 mg/mL in MeOH, * in Acetone

Set of 15 x 1 mL

Individual Standards

Atrazine (01)	Dichlobenil (06)	Propanil (11)
Dicamba (02)	Diuron (07)	Propazine (12)
Benfluralin (03)	Metolachlor (08)	Simazine (13)
Bentazon (04) *	Prometryn (09)	Tebuthiuron (14)
Dacthal (05)	Prometone (10)	Trifluralin (15)

Herbicide Mix #1

M-HERB-1

0.1 mg/mL each in EtOAc

1 x 1 mL

13 comps.

Atrazine	Hexazinone	Sutan
Bromacil	Molinate	Terbacil
Cycloate	Oxyfluorfen	Tillam
Eptam	Sencor	Trifluralin
Isopropalin		

Herbicide Mix #2

M-HERB-2

0.1 mg/mL each in EtOAc

1 x 1 mL

9 comps.

Benfluralin	Prowl
Metolachlor	Simazine
Oxadiazon	Tolban
Propachlor	Vernam
Propazine	

Triazines and Metabolites

 Neats at 10 mg. Solutions at 100 μ g/mL in MeOH, except -MC (in Methyl cellosolve)

Compound	CAS No.	NEAT Cat. No.	SOLUTION Cat. No.	Compound	CAS No.	NEAT Cat. No.	SOLUTION Cat. No.
2,4-bis(Ethylamino)-6-diethylamino-s-triazine		P-536N	P-536S-MC	Ametryn	834-12-8	P-003N	P-003S
2-Chloro-4-ethylamino-6-propylamino-s-triazine	90952-64-0	P-537N	P-537S-MC	Cyanazine	21725-46-2	P-175N	P-175S
2,4-Dichloro-6-ethylamino-s-triazine		P-538N	P-538S-MC	Gesatamine	1610-17-9	P-189N	P-189S
2-Chloro-4-ethylamino-6-methylethylamino-s-triazine		P-539N	P-539S-MC	2-Hydroxyatrazine	2163-68-0	-----	P-326S-MC
2-Chloro-4-methylamino-6-sec-butylamino-s-triazine		P-540N	P-540S-MC	Imazethapyr	81335-77-5	-----	P-285S
2-Chloro-4-methylamino-6-diethylamino-s-triazine		P-541N	P-541S-MC	2-Isopropylamino-4,6-dichloro-s-triazine		P-635N	P-635S
3-(2,3-Dichlorophenyl)-1,1-dimethylurea	10290-37-6	P-632N	P-632S	2-Monuron		P-633N	P-633S
Atrazine-desethyl-2-hydroxy (4-Amino-2-hydroxy-6-isopropylamino-s-triazine)	19988-24-0	-----	P-544S-MC	Prometryne	7287-19-6	P-078N	P-078S
Desethyl atrazine	6190-65-4	P-343N	P-343S	Propazine	139-40-2	P-079N	P-079S
Atrazine-desisopropyl	1007-28-9	P-345N	P-345S	Prometon	1610-18-0	P-077N	P-077S
Atrazine-desisopropyl-2-hydroxy	7313-54-4	P-344N	P-344S-MC	Sebuthylazin	7286-69-3	P-432N	P-432S
Atrazine	1912-24-9	P-005N	P-005S	Simazine	122-34-9	P-085N	P-085S
				Terbutylazine	5915-41-3	P-169N	P-169S

Phenylurea Pesticide Mixtures

Phenylurea Pesticide Mixture

PES-PU-001
1 x 1 mL
PES-PU-001-PAK
5 x 1 mL

 200 μ g/mL each in AcCN:Acetone

8 comps.

Diflubenzuron	Linuron	Tebuthiuron
Diuron	Propanil	Thidiazuron
Fluometuron	Siduron	

Phenylurea Surrogate Mixture

PES-PU-SS
1 x 1 mL
PES-PU-SS-PAK
5 x 1 mL

 500 μ g/mL each in MeOH:AcCN

2 comps.

Carbazole	Monuron
-----------	---------

 Save
5 x 1 mL

Honeybee Colony Collapse Disorder (CCD)



Neonicotinoids and Fipronils (CCD) UPDATE

On-going research into honeybee colony collapse disorder (CCD) has revealed that this group of pesticides may be a contributing factor which, may be solely responsible or working synergistically contributing to honeybee decline. Included in this group are the **Neonicotinoid pesticides**. **Fipronil and Fipronil metabolites** also have been suspected as possible causative agents.



Structures and physical data in individual pesticide section

Neonicotinoids

Compound	CAS	NEAT Cat. No.	Unit	SOLUTION Cat. No.	100 µg/mL Solvent	Unit
Acetamiprid	135410-20-7	P-820N	10 mg	P-820S-CN	AcCN	1 mL
6-Chloropyridine-3-carboxylic acid	5326-23-8	P-1267N	10 mg	P-1267S	MeOH	1 mL
Clothianidin	210880-92-5	P-947N	10 mg	P-947S	MeOH	1 mL
n-Desmethylthiamethoxam	171103-04-1	-----	-----	P-1266S	MeOH	1 mL
Dinotefuran	165252-70-0	-----	-----	P-986S-CN	AcCN	1 mL
Furathiocarb	65907-30-4	P-569N	10 mg	P-569S	MeOH	1 mL
6-Hydroxypyridine-3-carboxylic acid	5006-66-6	P-1226N	10 mg	P-1226S	MeOH	1 mL
Imidacloprid	138261-41-3	P-596N	10 mg	P-596S	MeOH	1 mL
2-Imidazolidone	120-93-4	P-1224N	10 mg	P-1224S	MeOH	1 mL
Nitenpyram	120738-89-8	P-858N	10 mg	P-858S-CN	AcCN	1 mL
Sulfoxaflor	946578-00-3	-----	-----	P-1133S	MeOH	1 mL
Thiacloprid	111988-49-9	P-838N	10 mg	P-838S-CN	AcCN	1 mL
Thiacloprid-amide	676228-91-4	P-1223N	10 mg	P-1223S	MeOH	1 mL
Thiamethoxam	153719-23-4	P-866N	10 mg	P-866S-CN	AcCN	1 mL

Fipronils

Compound	CAS	NEAT Cat. No.	Unit	SOLUTION Cat. No.	100 µg/mL Solvent	Unit
Fipronil	120068-37-3	P-738N	10 mg	P-738S	MeOH	1 mL
				P-738S-A	Acetone	1 mL
Fipronil desulfinyl	205650-65-3	-----	-----	P-782S-A	Acetone	1 mL
Fipronil sulfide	120067-83-6	P-781N-5MG	5 mg	P-781S-A	Acetone	1 mL
Fipronil sulfone	120068-36-2	-----	-----	P-780S-A	Acetone	1 mL

Fipronil and Metabolite Kit

P-FIP-MET-KIT 4 x 1 mL
P-738S-A, P-782S-A, P-781S-A, P-780S-A

Technical Note

Fipronil is in the phenyl pyrazole class of pesticides. It is a broad-spectrum insecticide used in many different applications. Fipronil can be found in many commercial topical flea and tick treatments for cats and dogs, because it is not readily absorbed through the skin, and has a comparatively low toxicity if ingested.

Fipronil produces three notable metabolites: Fipronil sulfide, Fipronil sulfone and Fipronil desulfinyl. These metabolites form under various conditions and are more toxic and environmentally persistent than the parent compound.





EPA Pesticide Methods

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Contract Laboratory Program (CLP)

Pesticide Mixtures

CLP - Pesticide Mixtures

CLP-018-10X 1 x 1 mL
CLP-018-10X-PAK 5 x 1 mL
 At stated conc. in Isooctane 11 comps.

Aldrin	(1.0 µg/mL)	Endosulfan II	(2.0 µg/mL)
γ-BHC	(0.5 µg/mL)	Endrin aldehyde	(2.5 µg/mL)
p,p'-DDT	(2.0 µg/mL)	Heptachlor	(1.0 µg/mL)
Dibutylchlorendate	(5.0 µg/mL)	Heptachlor epoxide	(1.0 µg/mL)
Dieldrin	(1.0 µg/mL)	Methoxychlor	(10 µg/mL)
Endosulfan I	(1.0 µg/mL)		

CLP-019-10X 1 x 1 mL
CLP-019-10X-PAK 5 x 1 mL
 At stated conc. in Isooctane 12 comps.

Aldrin	(1.0 µg/mL)	p,p'-DDD	(2.0 µg/mL)
α-BHC	(0.5 µg/mL)	p,p'-DDE	(1.0 µg/mL)
β-BHC	(1.0 µg/mL)	Dibutylchlorendate	(5.0 µg/mL)
δ-BHC	(1.0 µg/mL)	Endosulfan sulfate	(2.0 µg/mL)
α-Chlordane	(1.0 µg/mL)	Endrin	(1.0 µg/mL)
γ-Chlordane	(1.0 µg/mL)	Endrin ketone	(2.0 µg/mL)

Pesticide Set

CLP-018/019-10X-SET 2 x 1 mL
 (CLP-018-10X, CLP-019-10X)

CLP - Pesticide Surrogates

CLP-032-R 1 x 1 mL
CLP-032-R-PAK 5 x 1 mL
 200 µg/mL each in Acetone 2 comps.

Decachlorobiphenyl Tetrachloro-*m*-xylene

CLP-034 1 x 1 mL
CLP-034-PAK 5 x 1 mL
 200 µg/mL each in Acetone 2 comps.

Dibutylchlorendate Tetrachloro-*m*-xylene

CLP-PES-A 1 x 1 mL
CLP-PES-A-PAK 5 x 1 mL
 200 µg/mL in Acetone

CLP-PES-A-20X 1 x 1 mL
 4000 µg/mL in Acetone

Dibutylchlorendate

Save
5 x 1 mL

Pesticide Calibration Mixtures - Statement of Work 2/88 to 8/94

Working Level Pesticide Standard

At stated conc. (ng/mL) in Isooctane

Compound	Level				
	1	2	3	4	5
α-BHC	50	200	500	1,500	8,000
γ-BHC	50	200	500	1,500	8,000
p,p'-DDD	100	400	1,000	3,000	16,000
p,p'-DDT	100	400	1,000	3,000	16,000
Decachlorobiphenyl	100	400	1,000	3,000	16,000
Dieldrin	100	400	1,000	3,000	16,000
Endosulfan I	50	200	500	1,500	8,000
Endrin	100	400	1,000	3,000	16,000
Heptachlor	50	200	500	1,500	8,000
Methoxychlor	500	2,000	5,000	15,000	80,000
Tetrachloro- <i>m</i> -xylene	50	200	500	1,500	8,000

CLP-023R-CAL-SET 3 x 1 mL (Level 1, Level 2, Level 5)

Level 1	CLP-023R	1 mL
Level 2	CLP-023R-4X	1 mL
Level 3	CLP-023R-10X	1 mL
Level 4	CLP-023R-30X	1 mL
Level 5	CLP-023R-160X	1 mL

Level 2 Daily QC (for mid level curves)

CLP-023R-WL-4X-10ML 1 x 10 mL

CLP-023R-WL-4X-25ML 1 x 25 mL

CLP-023R-WL-4X-100ML 1 x 100 mL

At stated conc. in Isooctane 11 comps.

α-BHC	(20 ng/mL)	Endosulfan I	(20 ng/mL)
γ-BHC	(20 ng/mL)	Endrin	(40 ng/mL)
p,p'-DDD	(40 ng/mL)	Heptachlor	(20 ng/mL)
p,p'-DDT	(40 ng/mL)	Methoxychlor	(200 ng/mL)
Decachlorobiphenyl	(40 ng/mL)	Tetrachloro- <i>m</i> -xylene	(20 ng/mL)
Dieldrin	(40 ng/mL)		

Ready-to-Inject

Working Level Pesticide Standard

At stated conc. (ng/mL) in Isooctane

Compound	Level				
	1	2	3	4	5
Aldrin	50	200	500	1,500	8,000
β-BHC	50	200	500	1,500	8,000
δ-BHC	50	200	500	1,500	8,000
α-Chlordane	50	200	500	1,500	8,000
γ-Chlordane	50	200	500	1,500	8,000
p,p'-DDE	100	400	1,000	3,000	16,000
Decachlorobiphenyl	100	400	1,000	3,000	16,000
Endosulfan II	100	400	1,000	3,000	16,000
Endosulfan sulfate	100	400	1,000	3,000	16,000
Endrin aldehyde	100	400	1,000	3,000	16,000
Endrin ketone	100	400	1,000	3,000	16,000
Heptachlor epoxide	50	200	500	1,500	8,000
Tetrachloro- <i>m</i> -xylene	50	200	500	1,500	8,000

CLP-024R-CAL-SET 3 x 1 mL (Level 1, Level 2, Level 5)

Level 1	CLP-024R	1 mL
Level 2	CLP-024R-4X	1 mL
Level 3	CLP-024R-10X	1 mL
Level 4	CLP-024R-30X	1 mL
Level 5	CLP-024R-160X	1 mL

Level 2 Daily QC (for mid level curves)

CLP-024R-WL-4X-10ML 1 x 10 mL

CLP-024R-WL-4X-25ML 1 x 25 mL

CLP-024R-WL-4X-100ML 1 x 100 mL

At stated conc. in Isooctane 13 comps.

Aldrin	(20 ng/mL)	Endosulfan II	(40 ng/mL)
β-BHC	(20 ng/mL)	Endosulfan sulfate	(40 ng/mL)
δ-BHC	(20 ng/mL)	Endrin aldehyde	(40 ng/mL)
α-Chlordane	(20 ng/mL)	Endrin ketone	(40 ng/mL)
γ-Chlordane	(20 ng/mL)	Heptachlor epoxide	(20 ng/mL)
p,p'-DDE	(40 ng/mL)	Tetrachloro- <i>m</i> -xylene	(20 ng/mL)
Decachlorobiphenyl	(40 ng/mL)		

Pesticide Calibration Sets

CLP-023R/024R-SET	2 x 1 mL	CLP-023R/024R-40X-SET	2 x 1 mL
	(CLP-023R, CLP-024R)		(CLP-023R-40X, CLP-024R-40X)
CLP-023R/024R-4X-SET	2 x 1 mL	CLP-023R/024R-160X-SET	2 x 1 mL
	(CLP-023R-4X, CLP-024R-4X)		(CLP-023R-160X, CLP-024R-160X)



EPA 500 Series

Pesticide Method Standards

Method 505 Organohalide Pesticides by Microextraction & GC/ECD

M-505R-2 1 x 1 mL
M-505R-2-PAK 5 x 1 mL
At stated conc. in MeOH 16 comps.

Alachlor (10 µg/mL)	Heptachlor epoxide (1 µg/mL)
Aldrin (1 µg/mL)	Hexachlorobenzene (1 µg/mL)
Atrazine (250 µg/mL)	Hexachlorocyclopentadiene (1 µg/mL)
α-Chlordane (1 µg/mL)	Lindane (1 µg/mL)
γ-Chlordane (1 µg/mL)	Methoxychlor (5 µg/mL)
Dieldrin (1 µg/mL)	cis-Nonachlor (1 µg/mL)
Endrin (1 µg/mL)	trans-Nonachlor (1 µg/mL)
Heptachlor (1 µg/mL)	Simazine (250 µg/mL)

M-505-ASL 1 x 1 mL
M-505-ASL-PAK 5 x 1 mL
At stated conc. in Acetone 12 comps.

Alternate Source

Alachlor (50 µg/mL)	Heptachlor (20 µg/mL)
Aldrin (20 µg/mL)	Heptachlor epoxide (Isomer B) (20 µg/mL)
Atrazine (500 µg/mL)	Hexachlorobenzene (10 µg/mL)
γ-BHC (20 µg/mL)	Hexachlorocyclopentadiene (20 µg/mL)
Dieldrin (20 µg/mL)	Methoxychlor (200 µg/mL)
Endrin (20 µg/mL)	Simazine (100 µg/mL)

Multi-Component Analytes (Chlordane & Toxaphene)

Each at 1,000 µg/mL in Hexane

AccuPAK™ (5 x 1 mL)

Pesticides		
Chlordane	P-017S-H-10X	P-017S-H-10X-PAK
Toxaphene	P-093S-H-10X	P-093S-H-10X-PAK

Degradation Standard

P-045S 1 x 1 mL

100 µg/mL in MeOH

Endrin

Method 507 Nitrogen/Phosphorus Pesticides

Mix G

M-507G 1 x 1 mL
M-507G-PAK 5 x 1 mL
1.0 mg/mL each in MtBE 8 comps.

Benefin	Oxyfluorfen
Isopropalin	Propachlor
Pendimethalin	Profluralin
Oxadiazon	Trifluralin

Performance Check Solution

M-507-QC 1 x 1 mL
M-507-QC-PAK 5 x 1 mL
At stated conc. in MtBE 6 comps.

Atrazine (150 ng/mL)	Prometon (300 ng/mL)
DNB (2500 ng/mL)	TPP (2500 ng/mL)
Bromacil (5000 ng/mL)	Vernolate (50 ng/mL)

Internal Standard

M-507-IS 1 x 1 mL
M-507-IS-PAK 5 x 1 mL
0.5 mg/mL in MtBE
M-507-IS-10X 1 x 1 mL
5.0 mg/mL in MtBE

Triphenyl phosphate

Method 507 Nitrogen/Phosphorus Pesticides (Cont.)

Surrogate Standard

M-507-SS 1 x 1 mL
M-507-SS-PAK 5 x 1 mL
0.25 mg/mL in MtBE
M-507-SS-4X 1 x 1 mL
1.0 mg/mL in MtBE
 1,3-Dimethyl-2-nitrobenzene

Mix H

M-507H 1 x 1 mL
M-507H-PAK 5 x 1 mL
1.0 mg/mL each in MtBE
 DEF (for Merphos quantitation)

Method 508 Chlorinated Pesticides by GC/ECD

Chlorinated Pesticides Mix A

M-508P-A 1 x 1 mL
M-508P-A-PAK 5 x 1 mL
1.0 mg/mL each in MtBE 17 comps.

Aldrin	4,4'-DDE	Endrin
α-BHC	4,4'-DDT	Endrin aldehyde
β-BHC	Dieldrin	Heptachlor
δ-BHC	Endosulfan I	Heptachlor epoxide
γ-BHC	Endosulfan II	Methoxychlor
4,4'-DDD	Endosulfan sulfate	

Technical Note

Endrin & DDT can break down in the injection port at elevated temperatures. Breakdown can be monitored by running the Pesticide Degradation Standard (M-8081-DS). The problem can be alleviated by replacing the dirty injection port liner, or by using a lower injection port temperature.

Chlorinated Pesticides Mix B

M-508P-B-R 1 x 1 mL
M-508P-B-R-PAK 5 x 1 mL
1.0 mg/mL each in MtBE 13 comps.

α-Chlordane	Chlorpyrifos	cis-Permethrin (0.5 mg/mL)
γ-Chlordane	DCPA	trans-Permethrin (1.5 mg/mL)
Chlorobenzilate	Etridiazole	Propachlor
Chloroneb	Hexachlorobenzene	Trifluralin
Chlorothalonil		

Certificate will reflect actual cis/trans ratio

M-508P-B-R2 1 x 1 mL
M-508P-B-R2-PAK 5 x 1 mL
1.0 mg/mL each in MtBE 15 comps.

α-Chlordane	Chlorpyrifos	cis-Permethrin (0.5 mg/mL)
γ-Chlordane	DCPA	trans-Permethrin (1.5 mg/mL)
Chlorobenzilate	Etridiazole	Propachlor
Chloroneb	Hexachlorobenzene	Trifluralin
Chlorothalonil	Cyanazine	trans-Nonachlor

Certificate will reflect actual cis/trans ratio

Internal Standard

M-508-IS 1 x 1 mL
M-508-IS-PAK 5 x 1 mL
0.1 mg/mL in MtBE
M-508-IS-10X 1 x 1 mL
1.0 mg/mL in MtBE
 Pentachloronitrobenzene

Save
5 x 1 mL

EPA 500 Series

Pesticide Method Standards



Method 508 Chlorinated Pesticides by GC/ECD (Cont.)

Surrogate Standards

M-508-SS	1 x 1 mL
M-508-SS-PAK	5 x 1 mL
0.5 mg/mL in MtBE	
4,4'-Dichlorobiphenyl	

M-508-SS-2	1 x 1 mL
M-508-SS-2-PAK	5 x 1 mL
0.5 mg/mL in MtBE	
Decachlorobiphenyl	

Decomposition Solution

M-508-DS-100X	1 x 1 mL
M-508-DS-100X-PAK	5 x 1 mL
At stated conc. in MtBE	
p,p'-DDT (200 µg/mL)	Endrin (100 µg/mL)

Performance Check Solution

M-508-QC	1 x 1 mL
M-508-QC-PAK	5 x 1 mL
At stated conc. in MtBE	
δ-BHC (40 ng/mL)	Chlorpyrifos (2 ng/mL)
Chlorothalonil (50 ng/mL)	Dacthal (50 ng/mL)

Method 508.1 Chlorinated Pesticides, Herbicides & Organo-Halides by Liquid - Solid Extraction & ECD

Chlorinated Pesticide Mix #1

M-508.1-X1	1 x 1 mL
M-508.1-X1-PAK	5 x 1 mL
500 µg/mL each in Ethyl acetate	

Aldrin	Dieldrin
α-BHC	Endosulfan I
β-BHC	Endosulfan II
δ-BHC	Endosulfan sulfate
γ-BHC	Endrin
α-Chlordane	Endrin aldehyde
γ-Chlordane	Heptachlor
4,4'-DDD	Heptachlor epoxide (B)
4,4'-DDE	Methoxychlor
4,4'-DDT	

Chlorinated Pesticide Mix #2

M-508.1-X2	1 x 1 mL
M-508.1-X2-PAK	5 x 1 mL
500 µg/mL each in Ethyl acetate	

Alachlor	Hexachlorocyclopentadiene
Atrazine	Metolachlor
Chlorobenzilate	Metribuzin
Chloroneb	cis-Permethrin *
Chlorothalonil	trans-Permethrin *
Cyanazine	Propachlor
DCPA	Simazine
Etridiazole	Trifluralin
Hexachlorobenzene	

* Certificate will reflect actual cis/trans ratio

Regulated Pesticide Mix (SDWA)

M-508.1-ASL	1 x 1 mL
M-508.1-ASL-PAK	5 x 1 mL
100 µg/mL each in MtBE	

Alachlor	Dieldrin	Methoxychlor
Aldrin	Endrin	Metolachlor
Atrazine	Heptachlor	Metribuzin
β-BHC	Heptachlor epoxide (Isomer B)	Propachlor
α-Chlordane	Hexachlorobenzene	Simazine
γ-Chlordane	Hexachlorocyclopentadiene	

Method 508.1 Chlorinated Pesticides, Herbicides & Organo-Halides by Liquid - Solid Extraction & ECD (Cont.)

Decomposition Solution

M-508.1-DS-100X	1 x 1 mL
M-508.1-DS-100X-PAK	5 x 1 mL
100 µg/mL each in Ethyl acetate	
4,4'-DDT	Endrin

Internal Standard Solution

M-508.1-IS	1 x 1 mL
M-508.1-IS-PAK	5 x 1 mL
100 µg/mL each in Ethyl acetate	
Pentachloronitrobenzene	

Surrogate Standard Solution

M-508.1-SS	1 x 1 mL
M-508.1-SS-PAK	5 x 1 mL
100 µg/mL each in Ethyl acetate	
4,4'-Dibromobiphenyl	

Performance Check Solution

M-508.1-QC	1 x 1 mL
M-508.1-QC-PAK	5 x 1 mL
At stated conc. in MtBE	
δ-BHC (400 ng/mL)	Chlorpyrifos (20 ng/mL)
Chlorothalonil (500 ng/mL)	DCPA (500 ng/mL)

Save
5 x 1 mL



EPA 500 Series

Pesticide Method Standards

Method 515.1 Chlorinated Acids in Water by GC/ECD

Methyl Derivatives

M-515-R 1 x 1 mL
M-515-R-PAK 5 x 1 mL
 1.0 mg/mL each in MtBE as methyl derivatives 16 comps.

Acifluorfen, ME	3,5-Dichlorobenzoic acid, ME
Bentazon, ME	Dichlorprop, ME
Chloramben, ME	Dinoseb, ME
2,4-D, ME	4-Nitrophenol, ME
Dalapon, ME	Pentachlorophenol, ME
2,4-DB, ME	Picloram, ME
DCPA, Di ME	2,4,5-T, ME
Dicamba, ME	2,4,5-TP, ME

Underivatized Analytes

M-515A-R2 1 x 1 mL
M-515A-R2-PAK 5 x 1 mL
 At stated conc. in MeOH 16 comps.

Acifluorfen (100 µg/mL)	3,5-Dichlorobenzoic acid (100 µg/mL)
Bentazon (200 µg/mL)	Dichlorprop (300 µg/mL)
Chloramben (100 µg/mL)	Dinoseb (200 µg/mL)
2,4-D (200 µg/mL)	4-Nitrophenol (100 µg/mL)
Dalapon (1300 µg/mL)	Pentachlorophenol (100 µg/mL)
2,4-DB (800 µg/mL)	Picloram (100 µg/mL)
DCPA acid (100 µg/mL)	2,4,5-T (100 µg/mL)
Dicamba (100 µg/mL)	2,4,5-TP (100 µg/mL)

Technical Note

If you require the complete absence of partial esterification, we recommend M-515.4A and M-515.3A products.

Performance Check Solution

M-515-QC 1 x 1 mL
M-515-QC-PAK 5 x 1 mL
 At stated conc. in MtBE 3 comps.

3,5-Dichlorobenzoic acid methyl ester	(600 ng/mL)
Dinoseb methyl ether	(4 ng/mL)
4-Nitroanisole	(1600 ng/mL)

Performance Check Solution with ISTD & SS

M-515-QC-R 1 x 1 mL
M-515-QC-R-PAK 5 x 1 mL
 At stated conc. in MtBE 5 comps.

4,4'-Dibromooctafluorobiphenyl (ISTD)	(250 ng/mL)
3,5-Dichlorobenzoic acid methyl ester	(600 ng/mL)
2,4-Dichlorophenyl acetic acid methyl ester (SS)	(500 ng/mL)
Dinoseb methyl ether	(4 ng/mL)
4-Nitroanisole	(1600 ng/mL)

Internal Standard

M-515-IS 1 x 1 mL
M-515-IS-PAK 1 x 1 mL
 0.1 mg/mL in MtBE

4,4'-Dibromooctafluorobiphenyl

Surrogate Standards

M-515-SS 1 x 1 mL
M-515-SS-PAK 5 x 1 mL
 0.1 mg/mL in MtBE
M-515-SS-50X 5 x 1 mL
 5.0 mg/mL in MtBE

2,4-Dichlorophenylacetic acid methyl ester

P-244S 1 x 1 mL
 0.1 mg/mL in MeOH

2,4-Dichlorophenylacetic acid

Method 515.2 Chlorinated Acids in Water by GC/ECD

Methyl Derivatives

M-515.2-1 1 x 1 mL
M-515.2-1-PAK 5 x 1 mL
 At stated conc. in MeOH 6 comps.

DCPA, ME (100 µg/mL)	Dinoseb, ME (200 µg/mL)
3,5-Dichlorobenzoic acid, ME (500 µg/mL)	Pentachlorophenol, ME (100 µg/mL)
Dichlorprop, ME (100 µg/mL)	2,4,5-T, ME (100 µg/mL)

M-515.2-2 1 x 1 mL
M-515.2-2-PAK 5 x 1 mL
 At stated conc. in MeOH 7 comps.

Acifluorfen, ME (200 µg/mL)	Dicamba, ME (300 µg/mL)
Bentazon, ME (1000 µg/mL)	Picloram, ME (300 µg/mL)
2,4-D, ME (100 µg/mL)	2,4,5-TP, ME (100 µg/mL)
2,4-DB, ME (1000 µg/mL)	

Underivatized Analytes

M-515.2A-1 1 x 1 mL
M-515.2A-1-PAK 5 x 1 mL
 At stated conc. in MeOH 6 comps.

DCPA acid (100 µg/mL)	Dinoseb (200 µg/mL)
3,5-Dichlorobenzoic acid (500 µg/mL)	Pentachlorophenol (100 µg/mL)
Dichlorprop (100 µg/mL)	2,4,5-T (100 µg/mL)

M-515.2A-2 1 x 1 mL
M-515.2A-2-PAK 5 x 1 mL
 At stated conc. in MeOH 7 comps.

Acifluorfen (200 µg/mL)	Dicamba (300 µg/mL)
Bentazon (1000 µg/mL)	Picloram (300 µg/mL)
2,4-D (100 µg/mL)	2,4,5-TP (100 µg/mL)
2,4-DB (1000 µg/mL)	

Method 515.1 & 515.2 Chlorinated Acids in Water by GC/ECD

Laboratory Performance Check Solution

M-8150/51-LPC-5ML 1 x 5 mL
 At stated conc. in Isooctane 5 comps.

3,5-Dichlorobenzoic acid (600 ng/mL)	DCAA (500 ng/mL)
Dinoseb (4 ng/mL)	DBOB (250 ng/mL)
4-Nitrophenol (1600 ng/mL)	

Save
5 x 1 mL

EPA 500 Series

Pesticide Method Standards



Method 515.3 Chlorinated Acids in Drinking Water by ECD

Underivatized Acids

M-515.3A			1 x 1 mL
M-515.3A-PAK			5 x 1 mL
At stated conc. in Acetone			17 comps.
Acifluorfen (50 µg/mL)	3,5-Dichlorobenzoic acid (50 µg/mL)		
Bentazon (100 µg/mL)	Dichlorprop (100 µg/mL)		
Chloramben (50 µg/mL)	Dinoseb (100 µg/mL)		
2,4-D (100 µg/mL)	4-Nitrophenol (100 µg/mL)		
Dalapon (100 µg/mL)	Pentachlorophenol (10 µg/mL)		
2,4-DB (100 µg/mL)	Picloram (100 µg/mL)		
DCPA Diacid (50 µg/mL)	2,4,5-T (25 µg/mL)		
DCPA monoacid (50 µg/mL)	Silvex (25 µg/mL)		
Dicamba (50 µg/mL)			

Laboratory Performance Check

Methyl Derivatives

M-515.3-LPC			1 x 1 mL
M-515.3-LPC-PAK			5 x 1 mL
At stated conc. in MtBE			4 comps.
2,4-DB methyl ester (25 µg/mL)	Chloramben methyl ester (12.5 µg/mL)		
Dinoseb methyl ether (25 µg/mL)	4-Nitroanisole (25 µg/mL)		

Independent Check Standard Methyl Derivatives

M-515.3-ICS			1 x 1 mL
M-515.3-ICS-PAK			5 x 1 mL
At stated conc. in MtBE			16 comps.
Acifluorfen methyl ester (50 µg/mL)	Methyl-3,5-Dichlorobenzoate (50 µg/mL)		
Bentazon methyl (100 µg/mL)	Dichlorprop methyl ester (100 µg/mL)		
Chloramben methyl ester (50 µg/mL)	Dinoseb methyl ether (100 µg/mL)		
2,4-D methyl ester (100 µg/mL)	4-Nitroanisole (100 µg/mL)		
Dalapon methyl ester (100 µg/mL)	Pentachloroanisole (10 µg/mL)		
2,4-DB methyl ester (100 µg/mL)	Picloram methyl ester (100 µg/mL)		
Dacthal (100 µg/mL)	2,4,5-T methyl ester (25 µg/mL)		
Dicamba methyl ester (50 µg/mL)	Silvex methyl ester (25 µg/mL)		

Internal Standard

M-515-IS		1 x 1 mL
M-515-IS-PAK		5 x 1 mL
0.1 mg/mL in MtBE		
4,4'-Dibromooctafluorobiphenyl		

Save
5 x 1 mL

Method 515.4 Chlorinated Acids in Drinking Water by ECD

Underivatized Acids

M-515.4A			1 x 1 mL
M-515.4A-PAK			5 x 1 mL
At stated conc. in Acetone			17 comps.
Acifluorfen (50 µg/mL)	3,5-Dichlorobenzoic acid (50 µg/mL)		
Bentazon (100 µg/mL)	Dichlorprop (100 µg/mL)		
Chloramben (50 µg/mL)	Dinoseb (100 µg/mL)		
2,4-D (100 µg/mL)	Pentachlorophenol (10 µg/mL)		
Dalapon (100 µg/mL)	Picloram (50 µg/mL)		
2,4-DB (100 µg/mL)	2,4,5-T (25 µg/mL)		
DCPA Diacid (50 µg/mL)	Silvex (25 µg/mL)		
DCPA monoacid (50 µg/mL)	Quinclorac (50 µg/mL)		
Dicamba (50 µg/mL)			

Underivatized Surrogate

M-8150B-SS		1 x 1 mL
M-8150B-SS-PAK		5 x 1 mL
0.1 mg/mL in Acetone		
2,4-Dichlorophenylacetic acid		

Quality Control Sample Methyl Derivatives

M-515.4-QCS			1 x 1 mL
M-515.4-QCS-PAK			5 x 1 mL
At stated conc. in MtBE			16 comps.
Acifluorfen methyl ester (50 µg/mL)	Methyl-3,5-Dichlorobenzoate (50 µg/mL)		
Bentazon methyl (100 µg/mL)	Dichlorprop methyl ester (100 µg/mL)		
Chloramben methyl ester (50 µg/mL)	Dinoseb methyl ether (100 µg/mL)		
2,4-D methyl ester (100 µg/mL)	Pentachloroanisole (10 µg/mL)		
Dalapon methyl ester (100 µg/mL)	Picloram methyl ester (50 µg/mL)		
2,4-DB methyl ester (100 µg/mL)	2,4,5-T methyl ester (25 µg/mL)		
Dacthal (100 µg/mL)	Silvex methyl ester (25 µg/mL)		
Dicamba methyl ester (50 µg/mL)	Quinclorac methyl ester (50 µg/mL)		

Technical Note

M-515.3A and M-515.4A are to be used as procedural standards for the calibration of the method. These standards should be carried through the entire extraction and derivatization procedure associated with the samples.

Method 525.1 Organic Compounds in Drinking Water by Liquid-Solid Extraction and Capillary GC/MS

Pesticide Mixtures

M-525-3		1 x 1 mL
M-525-3-PAK		5 x 1 mL
0.1 mg/mL each in Acetone		
M-525-3-5X		1 x 1 mL
M-525-3-5X-PAK		5 x 1 mL
0.5 mg/mL each in Acetone		12 comps.
Alachlor	Heptachlor	
Aldrin	Heptachlor epoxide	
Atrazine	Lindane	
α-Chlordane	Methoxychlor	
γ-Chlordane	Simazine	
Endrin	trans-Nonachlor	

Multi-Component / Analyte

M-525-5		1 x 1 mL
M-525-5-PAK		5 x 1 mL
2.5 mg/mL in Acetone		
Toxaphene		



Method 525.2 (Revision 1.0) Organic Compounds in Drinking Water by Liquid-Solid Extraction and Capillary GC/MS

Nitrogen/Phosphorus Pesticides

M-507A 1.0 mg/mL each in MtBE 1 x 1 mL
6 comps.

Ametryn	Fenamiphos
Cycloate	Merphos
Disulfoton	Prometon

M-507B 1.0 mg/mL each in MtBE 1 x 1 mL
9 comps.

Atrazine	Prometryne
Diphenamid	Propazine
EPTC	Terbutryn
Ethoprop	Triadimefon
Mevinphos	

M-507C 1.0 mg/mL each in MtBE 1 x 1 mL
9 comps.

Butachlor	MGK-264
Carboxin	Norflurazon
Diazinon	Terbufos
Metolachlor	Vernolate
Metribuzin	

M-507D 1.0 mg/mL each in MtBE 1 x 1 mL
10 comps.

Alachlor	Hexazinone
Atraton	Molinate
Bromacil	Pronamide
Butylate	Stirofos
Chlorpropham	Tricyclazole

M-507E 1.0 mg/mL each in MtBE 1 x 1 mL
8 comps.

Dichlorvos	Pebulate (Tillam)
Fenarimol	Simetryn
Fluridone	Tebuthiuron
Napropamide	Terbacil

M-507F-R2 1.0 mg/mL each in Acetone 1 x 1 mL
2 comps.

Methyl paraoxon	Simazine
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Auxiliary Standards

Internal Standard

M-525.2-IS 1 x 1 mL
M-525.2-IS-PAK 5 x 1 mL
0.5 mg/mL each in Acetone 3 comps.

Acenaphthene-d ₁₀	Phenanthrene-d ₁₀
Chrysene-d ₁₂	

Surrogate Standard

M-525.2-SS 1 x 1 mL
M-525.2-SS-PAK 5 x 1 mL
0.5 mg/mL each in Acetone 3 comps.

1,3-Dimethyl-2-nitrobenzene	Triphenylphosphate
Perylene-d ₁₂	

Internal/Surrogate Standard

M-525.2-IS/SS 1 x 1 mL
M-525.2-IS/SS-PAK 5 x 1 mL
0.5 mg/mL each in Acetone 6 comps.

Acenaphthene-d ₁₀	Perylene-d ₁₂
Chrysene-d ₁₂	Phenanthrene-d ₁₀
1,3-Dimethyl-2-nitrobenzene	Triphenylphosphate

Tuning Standard

M-525.2-TS 1 x 1 mL
0.5 mg/mL each in CH₂Cl₂ 3 comps.

4,4'-DDT	Endrin
DFTPP	

Technical Note

Endrin & DDT can break down in the injection port at elevated temperatures. Breakdown can be monitored by running the Pesticide Degradation Standard (M-8081-DS). The problem can be alleviated by replacing the dirty injection port liner, or by using a lower injection port temperature.

Chlorinated Pesticides

Mix A

M-508P-A 1 x 1 mL
M-508P-A-PAK 5 x 1 mL
1.0 mg/mL each in MtBE 17 comps.

Aldrin	Endosulfan I
α-BHC	Endosulfan II
β-BHC	Endosulfan sulfate
δ-BHC	Endrin
γ-BHC	Endrin aldehyde
4,4'-DDD	Heptachlor
4,4'-DDE	Heptachlor epoxide
4,4'-DDT	Methoxychlor
Dieldrin	

Mix B

M-508P-B-R2 1 x 1 mL
M-508P-B-R2-PAK 5 x 1 mL
1.0 mg/mL each in MtBE 15 comps.

α-Chlordane	Etridiazole
γ-Chlordane	Hexachlorobenzene
Chlorobenzilate	trans-Nonachlor
Chloroneb	cis-Permethrin (0.5 mg/mL) *
Chlorothalonil	trans-Permethrin (1.5 mg/mL) *
Chlorpyrifos	Propachlor
Cyanazine	Trifluralin
DCPA	

* Certificate will reflect actual cis/trans permethrin ratio

Save
5 x 1 mL

EPA 500 Series

Pesticide Method Standards



Method 525.2 (Continued) Organic Compounds in Drinking Water by Liquid-Solid Extraction and Capillary GC/MS

These solutions are to be used individually or combined for calibration curve development. The Nitrogen Phosphorous Pesticides typically analyzed by NPD were combined into convenient solutions for possible use in other EPA methods such as 507. The Chlorinated Pesticides typically analyzed by ECD were combined into a convenient solution for use in this method or additional methods such as 505 or 508.1.

Nitrogen / Phosphorus Pesticide Mixture

M-525.2-NP1-ASL

1 x 1 mL

M-525.2-NP1-ASL-PAK

5 x 1 mL

100 µg/mL each in Acetone

Alternate Source

Alachlor	Ethoprop	Prometryne
Ametryn	Fenarimol	Pronamide
Atraton	Fluridone	Propachlor
Atrazine	Hexazinone	Propazine
Bromacil	Methyl paraoxon	Simetryn
Butachlor	Metolachlor	Tetrachlorvinphos
Butylate	Metribuzin	Tebuthiuron
Chlorpropham	Mevinphos	Terbacil
Dursban	MGK-264	Prebane
Cycloate	Molinate	Triadimefon
Cyanazine	Napropamide	Tricyclazole
Dichlorvos	Norflurazon	Trifluralin
Diphenamid	Pebulate	Vernolate
EPTC	Prometon	

Nitrogen / Phosphorus Pesticide Mix Revision

M-525.2-NP1-ASL-R1

1 x 1 mL

100 µg/mL each in Acetone

Alternate Source

40 comps.

Alachlor	Ethoprop	Prometryne
Ametryn	Fenarimol	Pronamide
Atraton	Fluridone	Propachlor
Atrazine	Hexazinone	Propazine
Bromacil	Methyl paraoxon	Simetryn
Butachlor	Metolachlor	Tetrachlorvinphos
Butylate	Mevinphos	Tebuthiuron
Chlorpropham	MGK-264	Terbacil
Dursban	Molinate	Prebane
Cycloate	Napropamide	Triadimefon
Cyanazine	Norflurazon	Tricyclazole
Dichlorvos	Pebulate	Trifluralin
Diphenamid	Prometon	Vernolate
EPTC		

Organochlorine Pesticides

M-525.2-CP-ASL

1 x 1 mL

M-525.2-CP-ASL-PAK

5 x 1 mL

100 µg/mL each in Acetone

Alternate Source

30 comps.

Alachlor	Dachal	Etridiazole
Aldrin	p,p'-DDD	α-Chlordane
Atrazine	p,p'-DDE	γ-Chlordane
α-BHC	p,p'-DDT	Heptachlor
β-BHC	Dieldrin	Heptachlor epoxide (Isomer B)
δ-BHC	Endosulfan I	Methoxychlor
γ-BHC	Endosulfan II	cis-Permethrin
Chlorobenzilate	Endosulfan sulfate	trans-Permethrin
Chlorothalonil	Endrin	Simazine
Chloroneb	Endrin aldehyde	trans-Nonachlor

Nitrogen / Phosphorus Pesticide Mixture

M-525.2-NP2-ASL

1 x 1 mL

M-525.2-NP2-ASL-PAK

5 x 1 mL

100 µg/mL each in Acetone

Alternate Source

6 comps.

Carboxin	Fenamiphos
Diazinon	Merphos
Disulfoton	Terbufos

Method 531 + 531.1 N-Methyl carbamoyl oximes & N-Methyl carbamates by HPLC

M-531-SET

Each at 0.1 mg/mL in AcCN

set of 11 x 1 mL

Analytes listed below

Each at 0.1 mg/mL in AcCN	Cat. No.	1 mL
Aldicarb sulfoxide	M-531-01	
Aldicarb sulfone	M-531-02	
Oxamyl	M-531-03	
Methomyl	M-531-04	
3-Hydroxycarbofuran	M-531-05	
Aldicarb	M-531-06	
Propoxur	M-531-07	
Carbofuran	M-531-08	
Carbaryl	M-531-09	
1-Naphthol	M-531-10	
Methiocarb	M-531-11	

M-531M

M-531M-PAK

0.1 mg/mL each in AcCN

1 x 1 mL

5 x 1 mL

11 comps.

Performance Check Solution

M-531-QC-R

At stated conc. in AcCN

1 x 1 mL

4 comps.

Aldicarb sulfoxide	(100 µg/mL)	3-Hydroxycarbofuran	(2 µg/mL)
BDMC	(10 µg/mL)	Methiocarb	(20 µg/mL)

Internal Standard

M-531-IS

0.1 mg/mL in AcCN

1 x 1 mL

4-Bromo-3,5-dimethylphenyl N-methylcarbamate (BDMC)

Carbamate Pesticide Mix

M-531-REG-ASL

M-531-REG-ASL-PAK

100 µg/mL in MeOH

1 x 1 mL

5 x 1 mL

2 comps.

Carbofuran	Oxamyl
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Match frequently requested products.

Alternate Source

ASL products can be used as an independent second source.

Method 527 Pesticides & Flame Retardants in Drinking Water by SPE & Capillary GC/MS

Pesticide Mix A

M-527-PEST-A

1 x 1 mL

500 µg/mL each in MeOH

11 comps.

Atrazine	Kepon
Bioallethrin, S-cyclopentyl isomer	Norflurazon
Bromacil	Oxychlordan isomer
Esfenvalerate	Prometryne
Fenvalerate	Propazine
Hexazinone	

Pesticide Mix B

M-527-PEST-B

1 x 1 mL

500 µg/mL each in MeOH

12 comps.

Bifenthrin	Nitrofen
Dimethoate	Parathion
Dursban	Terbufos sulfone
Fenamiphos	Thiazopyr
Malathion	Thiobencarb
Mirex	Vinclozolin



EPA Method 500 Series

Pesticide Standards for Drinking Water

Method 532 Phenylureas by HPLC

Phenylurea Concentrate Standard

M-532-CONC1 1 x 1 mL
M-532-CONC1-PAK 5 x 1 mL
 5.0 mg/mL each in MeOH 6 comps.

Karmex	Propanil
Fluometuron	Siduron
Linuron	Tebuthiuron

Phenylurea Concentrate Standard

M-532-CONC2 1 x 1 mL
M-532-CONC2-PAK 5 x 1 mL
 5.0 mg/mL each in Acetone 2 comps.

Diflubenuron	Thidiazuron
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Phenylurea Primary Dilution Standard

M-532 1 x 1 mL
M-532-PAK 5 x 1 mL
 100 µg/mL each in MeOH, except Siduron 8 comps.

Diflubenuron	Propanil
Karmex	Siduron (200 µg/mL)
Fluometuron	Tebuthiuron
Linuron	Thidiazuron

Phenylurea Surrogate Standard

M-532-SS 1 x 1 mL
M-532-SS-PAK 5 x 1 mL
 500 µg/mL each in MeOH 2 comps.

Carbazole	Monuron
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Method 535 Acetanilide/Acetamide Herbicide Degradates

Ethanesulfonic acid (ESA) and oxanilic acid (OA) degradation products of acetanilide/acetamide herbicides have been found in U.S. ground waters and surface waters. The substitution of the sulfonic acid or the carbonic acid for the chlorine atom greatly increases the water solubility of degradates relative to the parent compound and contributes to the increased potential for leaching into groundwater

M-535-SET 14 x 1 mL
 At stated conc. in MeOH

Acetochlor ESA	50 µg/mL	Propachlor ESA	20 µg/mL
Acetochlor OA	50 µg/mL	Propachlor OA	20 µg/mL
Alachlor ESA	50 µg/mL	Dimethenamid ESA	10 µg/mL
Alachlor OA	50 µg/mL	Dimethenamid OA	10 µg/mL
Flufenacet ESA	20 µg/mL	Internal Standard	
Flufenacet OA	20 µg/mL	Butachlor ESA sodium salt	20 µg/mL
Metolachlor ESA	50 µg/mL	Surrogate Standard	
Metolachlor OA	50 µg/mL	Dimethachlor ESA sodium salt	20 µg/mL

Method 547 Glyphosate by HPLC

M-547 1 x 1 mL
 0.1 mg/mL in Deionized water

M-547-10X 1 x 1 mL
 1.0 mg/mL in Deionized water

Glyphosate

Glyphosate Metabolite

M-547-02 1 x 1 mL

0.1 mg/mL in Deionized water

Aminomethyl phosphonic acid (AMPA)

Save
5 x 1 mL

Method 548 Endothall by GC/ECD

M-548A 1 x 1 mL

10 µg/mL in Deionized water

M-548B 1 x 1 mL

50 µg/mL in Deionized water

Endothall

Internal Standard

M-548-IS 1 x 1 mL

10 µg/mL in MtBE

Endosulfan I

Calibration Standard

M-548-CAL 1 x 1 mL

100 µg/mL in MtBE

Endothall pentafluorophenyl hydrazine derivative

Method 548.1 Endothall by GC/MS

P-183S 1 x 1 mL

100 µg/mL in MeOH

Endothall

Internal Standard

M-548.1-IS 1 x 1 mL

500 µg/mL in MeOH

Acenaphthene-d₁₀

Methyl Derivative

M-548.1-ME 1 x 1 mL

100 µg/mL in MeOH

Dimethyl endothall

Method 549.1/549.2 Diquat & Paraquat Liquid - Solid Extraction & HPLC

M-549.1 1 x 1 mL

1.0 mg/mL each in Deionized water as non-hydrated species 2 comps.

Diquat dibromide - H₂O (1.97 mg/mL)

Paraquat dichloride - 4 H₂O (1.77 mg/mL)

Method 551 Chlorinated Organic Solvents + Trihalomethanes by GC/ECD

M-551A 1 x 1 mL

M-551A-PAK 5 x 1 mL

5.0 mg/mL each in MeOH 10 comps.

Bromodichloromethane

Bromoform

Carbon tetrachloride

Chlorodibromomethane

Chloroform

1,2-Dibromoethane

1,2-Dibromo-3-chloropropane

Tetrachloroethene

1,1,1-Trichloroethane

Trichloroethene

Disinfection By-products

M-551B 1 x 1 mL

5.0 mg/mL each in Acetone 8 comps.

M-551B-SET set of 8 x 1 mL

Each at 5.0 mg/mL in Acetone

	Cat. No.	1 mL
Bromochloroacetonitrile	M-551B-1	
Chloral hydrate	M-551B-2	
Chloropicrin	M-551B-3	
Dibromoacetonitrile	M-551B-4	
Dichloroacetonitrile	M-551B-5	
1,1-Dichloro-2-propanone	M-551B-6	
Trichloroacetonitrile	M-551B-7	
1,1,1-Trichloro-2-propanone	M-551B-8	

EPA Method 500 Series

Pesticide Standards for Drinking Water



Method 551.1A Chlorinated Solvents, Trihalomethanes Disinfection By-products & Halogenated Pesticides/Herbicides in Drinking Water by GC/ECD

Chlorinated Organic Solvents + Trihalomethanes

M-551.1A		1 x 1 mL
M-551.1A-PAK		5 x 1 mL
<i>At stated conc. in Acetone</i>		12 comps.
Bromodichloromethane	(1000 µg/mL)	
Bromoform	(1000 µg/mL)	
Carbon tetrachloride	(500 µg/mL)	
Chloroform	(1000 µg/mL)	
Dibromochloromethane	(1000 µg/mL)	
1,2-Dibromo-3-chloropropane	(1000 µg/mL)	
1,2-Dibromoethane	(1000 µg/mL)	
Tetrachloroethene	(500 µg/mL)	
1,1,1-Trichloroethane	(1000 µg/mL)	
1,1,2-Trichloroethane	(10,000 µg/mL)	
Trichloroethene	(1000 µg/mL)	
1,2,3-Trichloropropane	(10,000 µg/mL)	

Disinfection By-products

M-551.1B		1 x 1 mL
M-551.1B-PAK		5 x 1 mL
<i>1000 µg/mL each in Acetone</i>		8 comps.
Bromochloroacetonitrile	Dichloroacetonitrile	
Chloral hydrate	1,1-Dichloro-2-propanone	
Chloropicrin	Trichloroacetonitrile	
Dibromoacetonitrile	1,1,1-Trichloro-2-propanone	

Pesticide/Herbicide Mixture

M-551.1C		1 x 1 mL
M-551.1C-PAK		5 x 1 mL
<i>At stated conc. in Acetone</i>		17 comps.
Alachlor (10 µg/mL)	Hexachlorobenzene (1 µg/mL)	
Atrazine (200 µg/mL)	Hexachlorocyclopentadiene (1 µg/mL)	
Bromacil (10 µg/mL)	Lindane (1 µg/mL)	
Cyanazine (30 µg/mL)	Methoxychlor (5 µg/mL)	
Endrin (2 µg/mL)	Metolachlor (10 µg/mL)	
Endrin aldehyde (2 µg/mL)	Metribuzin (5 µg/mL)	
Endrin ketone (2 µg/mL)	Simazine (200 µg/mL)	
Heptachlor (1 µg/mL)	Trifluralin (1 µg/mL)	
Heptachlor epoxide (isomer B) (1 µg/mL)		

Method 551.1A Auxiliary Standards by ECD

Laboratory Performance Check Solutions

Pentane Extracts

M-551.1-LPC-P		1 x 1 mL
M-551.1-LPC-P-PAK		5 x 1 mL
<i>At stated conc. in Pentane</i>		7 comps.
Alachlor (83 µg/mL)	Hexachlorocyclopentadiene (20 µg/mL)	
Bromacil (83 µg/mL)	Lindane (0.2 µg/mL)	
Bromodichloromethane (30 µg/mL)	Trichloroethene (30 µg/mL)	
Endrin (30 µg/mL)		

MtBE Extracts

M-551.1-LPC		1 x 1 mL
M-551.1-LPC-PAK		5 x 1 mL
<i>At stated conc. in MtBE</i>		7 comps.
Alachlor (83 µg/mL)	Hexachlorocyclopentadiene (20 µg/mL)	
Bromacil (83 µg/mL)	Lindane (0.2 µg/mL)	
Bromodichloromethane (30 µg/mL)	Trichloroethene (30 µg/mL)	
Endrin (30 µg/mL)		

Internal Standard Solutions

M-551.1-IS		1 x 1 mL
M-551.1-IS-PAK		5 x 1 mL
<i>100 µg/mL in Acetone</i>		
M-551.1-IS-100X		1 x 1 mL
M-551.1-IS-100X-PAK		5 x 1 mL
<i>10,000 µg/mL in Acetone</i>		
<i>p</i> -Bromofluorobenzene		

Method 551.1A Auxiliary Standards by ECD (Cont.)

Modified Laboratory Performance Check Solutions

Pentane Extracts

M-551.1-MLPC-P		1 x 1 mL
M-551.1-MLPC-P-PAK		5 x 1 mL
<i>At stated conc. in Pentane</i>		4 comps.
γ-BHC (0.2 µg/mL)	Hexachlorocyclopentadiene (20 µg/mL)	
Bromodichloromethane (30 µg/mL)	Trichloroethene (30 µg/mL)	

MtBE Extracts

M-551.1-MLPC		1 x 1 mL
M-551.1-MLPC-PAK		5 x 1 mL
<i>At stated conc. in MtBE</i>		4 comps.
γ-BHC (0.2 µg/mL)	Hexachlorocyclopentadiene (20 µg/mL)	
Bromodichloromethane (30 µg/mL)	Trichloroethene (30 µg/mL)	

Surrogate Standard Solutions

M-551.1-SS		1 x 1 mL
M-551.1-SS-PAK		5 x 1 mL
<i>10 µg/mL in Acetone</i>		
M-551.1-SS-100X		1 x 1 mL
M-551.1-SS-100X-PAK		5 x 1 mL
<i>1,000 µg/mL in Acetone</i>		
Decafluorobiphenyl		

Method 553 Benzidines & Nitrogen containing Pesticides by L-L or L-S Extraction & RP HPLC/Particle Beam/MS

Analytes

M-553		1 x 1 mL
<i>At stated conc. in AcCN:MeOH (50:50)</i>		13 comps.
Benzidine (250 µg/mL)	3,3'-Dimethylbenzidine (350 µg/mL)	
Benzoylprop ethyl (350 µg/mL)	Diuron (450 µg/mL)	
Caffeine (300 µg/mL)	Linuron (1,300 µg/mL)	
Carbaryl (1,000 µg/mL)	Monuron (400 µg/mL)	
o-Chlorophenyl thiourea (750 µg/mL)	Rotenone (3,200 µg/mL)	
3,3'-Dichlorobenzidine (250 µg/mL)	Siduron (450 µg/mL)	
3,3'-Dimethoxybenzidine (750 µg/mL)		

Performance Check Solution

M-553-PC		1 x 1 mL
<i>0.1 mg/mL in AcCN</i>		
DFTPPO (Decafluorotriphenylphosphine oxide)		

Method 555 Chlorinated Acids by HPLC

Mix A

M-555A		1 x 1 mL
<i>1.0 mg/mL each in AcCN</i>		8 comps.
Acifluorfen	Dicamba	
Bentazon	Dichlorprop	
Chloramben	Picloram	
2,4-D	2,4,5-TP	

Mix B

M-555B		1 x 1 mL
<i>1.0 mg/mL each in AcCN</i>		8 comps.
2,4-DB	MCPP	
3,5-Dichlorobenzoic acid	4-Nitrophenol	
Dinoseb	Pentachlorophenol	
MCPA	2,4,5-T	



National Primary Drinking Water Standards

Pesticide Standards for Drinking Water

EPA Safe Drinking Water Act (SDWA) Amendment National Primary Drinking Water Standards (continued)

Regulated Herbicide Mixture (Non-derivatized)

M-515-REG			1 x 1 mL
<i>At stated conc. in Acetone</i>			
Acifluorfen ††	(100 µg/mL)	Dinoseb	(200 µg/mL)
2,4-D	(300 µg/mL)	Pentachlorophenol	(100 µg/mL)
Dalapon	(1000 µg/mL)	Picloram	(100 µg/mL)
Dicamba ††	(100 µg/mL)	2,4,5-TP	(100 µg/mL)

Regulated Herbicide Mixtures (Methyl Derivatives)

M-515-REG-ME			1 x 1 mL
<i>At stated conc. MtBE</i>			

Acifluorfen methyl ester ††	(250 ng/mL)	Dinoseb methyl ether	(500 ng/mL)
2,4-D methyl ester	(500 ng/mL)	Pentachloroanisole	(100 ng/mL)
Dalapon methyl ester	(2000 ng/mL)	Picloram methyl ester	(250 ng/mL)
Dicamba methyl ester ††	(500 ng/mL)	2,4,5-TP methyl ester	(500 ng/mL)

M-515-REG-ME-1000X			1 x 1 mL
<i>At stated conc. MtBE</i>			

Acifluorfen methyl ester ††	(250 µg/mL)	Dinoseb methyl ether	(500 µg/mL)
2,4-D methyl ester	(500 µg/mL)	Pentachloroanisole	(100 µg/mL)
Dalapon methyl ester	(2000 µg/mL)	Picloram methyl ester	(250 µg/mL)
Dicamba methyl ester ††	(500 µg/mL)	2,4,5-TP methyl ester	(500 µg/mL)

Regulated Semi-Volatiles Mixture

M-525-REG-EA			1 x 1 mL
<i>0.1 mg/mL each in Ethyl Acetate</i>			
M-525-REG-EA-5X			1 x 1 mL
<i>0.5 mg/mL each in Ethyl Acetate</i>			

Alachlor	Endrin
Aldrin †	Heptachlor
Atrazine	Heptachlor epoxide
Benzo[a]pyrene	Hexachlorobenzene
Butachlor †	Hexachlorocyclopentadiene
α-Chlordane	Lindane
γ-Chlordane	Methoxychlor
Cyanazine ††	Metolachlor ††
Dieldrin †	Metribuzin ††
2,4-Dinitrotoluene ††	trans-Nonachlor
2,6-Dinitrotoluene ††	Propachlor †
bis(2-Ethylhexyl)adipate	Simazine
bis(2-Ethylhexyl)phthalate	

† Unregulated Additions
 †† Proposed Phase VIB Additions

Save
5 x 1 mL

Regulated Pesticide Mixture

M-531-REG			1 x 1 mL
<i>0.1 mg/mL each in Acetonitrile</i>			

Aldicarb	Carbofuran
Aldicarb sulfone	3-Hydrocarbofuran †
Aldicarb sulfoxide	Methomyl ††
Carbaryl †	Oxamyl

Proposed Phase VIA Additions

Disinfectant By-products

Bromoform ††	}	see Method 501 Total Trihalomethanes
Chloroform ††		
Dibromochloromethane ††		
Dichlorobromomethane ††	}	Method 551, Chlorinated Solvents + Disinfectant By-products

Bromoacetic acid ††	}	Haloacetic acids see Method 552.2
Chloroacetic acid ††		
Dibromoacetic acid ††		
Dichloroacetic acid ††		
Trichloroacetic acid ††		

Regulated Pesticide Mixture

M-508.1-ASL			1 x 1 mL
M-508.1-ASL-PAK	Alternate Source		5 x 1 mL
<i>100 µg/mL each in MtBE</i>			17 comps.

Alachlor	Heptachlor epoxide (Isomer B)
Aldrin	Hexachlorobenzene
Atrazine	Hexachlorocyclopentadiene
γ-BHC	Methoxychlor
α-Chlordane	Metolachlor
γ-Chlordane	Metribuzin
Dieldrin	Propachlor
Endrin	Simazine
Heptachlor	

Regulated Semi-Volatiles Mixture

M-525-REG-ASL			1 x 1 mL
M-525-REG-ASL-PAK	Alternate Source		5 x 1 mL
<i>0.5 mg/mL each in Acetone</i>			6 comps.

Benzo[a]pyrene	Hexachlorobenzene
bis(2-Ethylhexyl)adipate	Hexachlorocyclopentadiene
bis(2-Ethylhexyl)phthalate	Pentachlorophenol (2.0 mg/mL)

Carbamate Pesticide Mixture

M-531-REG-ASL			1 x 1 mL
M-531-REG-ASL-PAK	Alternate Source		5 x 1 mL
<i>100 µg/mL each in MeOH</i>			2 comps.

Carbofuran	Oxamyl
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Match frequently requested products.

Alternate Source

ASL products can be used as an independent second source.



EPA Method 600 Series

Pesticide Standards for Waste Water

Method 608.1 & 608.2 Organochlorine Pesticides in Municipal & Industrial Wastewater by GC/ECD

M-608.1 1 x 1 mL
M-608.1-PAK 5 x 1 mL
 100 µg/mL each in Isooctane 7 comps.

Chlorobenzilate	Etridiazole
Chloroneb	PCNB
Chloropropylate	Propachlor
Dibromochloropropane	

M-608.2 1 x 1 mL
M-608.2-PAK 5 x 1 mL
 100 µg/mL each in Isooctane 6 comps.

Chlorothalonil	Methoxychlor
DCPA	cis-Permethrin *
Dichloram	trans-Permethrin *

* Certificate will reflect actual cis/trans ratio

Method 609 Nitroaromatics & Isophorone by GC/ECD/FID

M-609A-R 1 x 1 mL
 1.0 mg/mL each in Hexane 2 comps.

Isophorone	Nitrobenzene
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M-609B-R 1 x 1 mL
 1.0 mg/mL each in Hexane 2 comps.

2,4-Dinitrotoluene	2,6-Dinitrotoluene
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M-609-R-SET 2 x 1 mL
 (M-609A-R, M-609B-R)

Performance Check Solution

M-609-QC 1 x 1 mL
 At stated conc. in Acetone 4 comps.

Isophorone (100 µg/mL)	2,4-Dinitrotoluene (20 µg/mL)
Nitrobenzene (100 µg/mL)	2,6-Dinitrotoluene (20 µg/mL)

Method 614 & 614.1 Organophosphorus Pesticides by GC/NPD

M-614 1 x 1 mL
 1,000 µg/mL each in Acetone:Hexane (50:50) 8 comps.

Azinphos methyl	Ethion
Demeton (mix of O & S isomers)	Malathion
Diazinon	Parathion
Disulfoton	Parathion methyl

M-614.1 1 x 1 mL
 1,000 µg/mL each in Acetone:Hexane (50:50) 4 comps.

Dioxathion	Ethion
EPN	Terbufos

M-614.1-ASL 1 x 1 mL
 At stated conc. in Hexane 4 comps.

Dioxathion (10 µg/mL)	Ethion (100 µg/mL)
EPN (200 µg/mL)	Terbufos (4 µg/mL)

Alternate Source

Save
5 x 1 mL

Method 615 Chlorinated Herbicides

Chlorinated Herbicides

Each at 0.2 mg/mL * Compound	Herbicide Acids	Methyl Derivatives
	In MeOH Cat. No.	In Hexane Cat. No.
2,4-D	M-8150S-A-01	M-8150-01
2,4-DB	M-8150S-A-02	M-8150-02
2,4,5-T	M-8150S-A-03	M-8150-03
2,4,5-TP	M-8150S-A-04	M-8150-04
Dalapon	M-8150S-A-05	M-8150-05
Dicamba	M-8150S-A-06	M-8150-06
Dichlorprop	M-8150S-A-07	M-8150-07
Dinoseb	M-8150S-A-08	M-8150-08
MCPA (2.0 mg/mL) *	M-8150S-A-09	M-8150-09
MCPP (2.0 mg/mL) *	M-8150S-A-10	M-8150-10
Set of 10 x 1 mL	M-8150A-SET	M-8150-SET
Each Solution at 0.2 mg/mL, * except MCPA & MCPP		Above analytes

Underivatized

M-8150A 1 x 1 mL
 0.1 mg/mL in MEOH, except MCPA and MCPP 10 comps.

2,4-D	Dinoseb
Dalapon	MCPA (10 mg/mL)
2,4-DB	MCPP (10 mg/mL)
Dicamba	2,4,5-TP
Dichlorprop	2,4,5-T

Methyl Derivatives

M-8150 1 x 1 mL
 0.1 mg/mL in MEOH, except MCPA and MCPP 10 comps.

2,4-D	Dinoseb
Dalapon	MCPA (10 mg/mL)
2,4-DB	MCPP (10 mg/mL)
Dicamba	2,4,5-TP
Dichlorprop	2,4,5-T

Method 615 Underivatized Chlorinated Herbicides

M-615A-ASL 1 x 1 mL
M-615A-ASL-PAK 5 x 1 mL
 At stated conc. in MeOH 10 comps.

Method 615 Methyl Derivatives of Chlorinated Herbicides

M-615-ASL 1 x 1 mL
M-615-ASL-PAK 5 x 1 mL
 At stated conc. in MeOH 10 comps.

2,4-D (100 µg/mL)	Dicamba (10 µg/mL)
2,4-DB (100 µg/mL)	Dichlorprop (100 µg/mL)
2,4,5-T (10 µg/mL)	Dinoseb (50 µg/mL)
2,4,5-TP (10 µg/mL)	MCPA (10,000 µg/mL)
Dalapon (250 µg/mL)	MCPP (10,000 µg/mL)

Method 617 Chlorinated Pesticides & PCBs by GC/ECD

Mix #1 - Analytes

Z-014C-R2 1 x 1 mL
Z-014C-R2-PAK 5 x 1 mL
 2.0 mg/mL each in Hexane:Toluene (50:50) 18 comps.

Aldrin	4,4'-DDE	Endrin
α-BHC	4,4'-DDT	Endrin ketone
β-BHC	Dieldrin	Endrin aldehyde
γ-BHC	Endosulfan I	Heptachlor
δ-BHC	Endosulfan II	Heptachlor epoxide
4,4'-DDD	Endosulfan sulphate	Methoxychlor

Mix #2 - Analytes

M-617-2 1 x 1 mL
 2.0 mg/mL each in Hexane:Toluene (50:50) 9 comps.

Captan	Dicofol	PCNB
Carbophenothion	Isodrin	Perthane
Dichloran	Mirex	Trifluralin



EPA Method 600 Series

Pesticide Standards for Waste Water

Method 617 Chlorinated Pesticides & PCBs (Cont.)

Chlordane

P-017S-20X

2.0 mg/mL in MeOH

1 x 1 mL

Toxaphene

P-093S-40X

4.0 mg/mL in MeOH

1 x 1 mL

Method 618 Volatile Pesticides by GC/ECD

Volatile Pesticides

M-618

20 mg/mL each in Isooctane

1 x 1 mL

2 comps.

Chloropicrin

Ethylene dibromide

Internal Standard

M-618-IS

20 mg/mL in Isooctane

1 x 1 mL

Bromoform

Method 619 Triazine Herbicides by GC/NPD

Triazine Herbicides

Each at 0.1 mg/mL in MeOH

Compound	Cat. No.	1 mL	Compound	Cat. No.	1 mL
Ametryn	M-619-01		Secbumeton	M-619-07	
Atraton	M-619-02		Simetryn	M-619-08	
Atrazine	M-619-03		Simazine	M-619-09	
Prometon	M-619-04		Terbutylazine	M-619-10	
Prometryn	M-619-05		Terbutryn	M-619-11	
Propazine	M-619-06				

M-619-SET

Each at 0.1 mg/mL in MeOH

11 x 1 mL

M-619M

0.1 mg/mL each in MeOH

Above 11 compounds

1 x 1 mL

Above 11 compounds

Method 622 Organophosphorus Pesticides by GC/NPD

Organophosphorus Pesticides

M-622-SET

1000 µg/mL each in Hexane

27 x 1 mL

Azinphos methyl (01)	Merphos (15)
Bolstar (<i>Sulprofos</i>) (02)	Mevinphos (16)
Chlorpyrifos (03)	Monocrotophos (17)
Coumaphos (04)	Naled (18)
Demeton, O & S (05)	Parathion ethyl (19)
Diazinon (06)	Parathion methyl (20)
Dichlorvos (07)	Phorate (21)
Dimethoate (08)	Ronnel (22)
Disulfoton (09)	Stirophos (23)
EPN (10)	Sulfotep (24)
Ethoprop (11)	TEPP (25)
Fensulfothion (12)	Tokuthion (26)
Fenthion (13)	Trichloronate (27)
Malathion (14)	

Method 622.1 Thiophosphate Pesticides by GC/NPD

Thiophosphate Pesticides

M-622.1

1.0 mg/mL each in MtBE

1 x 1 mL

7 comps.

Aspon
Dichlofenthion
Famphur
Fenitrothion

Fonophos
Phosmet
Thionazin

Method 625 Priority Pollutant Standards

Pesticide Extractables Mixture

M-625P

M-625P-PAK

20 µg/mL each in MeOH

1 x 1 mL

5 x 1 mL

11 comps.

Aldrin
β-BHC
δ-BHC
4,4'-DDD
4,4'-DDE
4,4'-DDT

Dieldrin
Endosulfan sulfate
Endrin aldehyde
Heptachlor
Heptachlor epoxide

Chlordane and Toxaphene

M-001J

M-001J-PAK

At stated conc. in MeOH

1 x 1 mL

5 x 1 mL

2 comps.

Chlordane (0.02 mg/mL)

Toxaphene (0.20 mg/mL)

Pesticides - Mix #1

Z-014C

Z-014C-PAK

2.0 mg/mL each in Toluene:Hexane (50:50)

1 x 1 mL

5 x 1 mL

16 comps.

Aldrin
α-BHC
β-BHC
γ-BHC
δ-BHC
4,4'-DDD

4,4'-DDE
4,4'-DDT
Dieldrin
Endosulfan I
Endosulfan II

Endosulfan sulfate
Endrin
Endrin aldehyde
Heptachlor
Heptachlor epoxide

Pesticides - Mix #2

Z-014C-R

Z-014C-R-PAK

2.0 mg/mL each in Toluene:Hexane (50:50)

1 x 1 mL

5 x 1 mL

20 comps.

Aldrin
α-BHC
β-BHC
γ-BHC
δ-BHC
α-Chlordane
γ-Chlordane

4,4'-DDD
4,4'-DDE
4,4'-DDT
Dieldrin
Endosulfan I
Endosulfan II
Endosulfan sulfate

Endrin
Endrin aldehyde
Endrin ketone
Heptachlor
Heptachlor epoxide
Methoxychlor

Pesticides - Mix #3

Z-014C-R2

Z-014C-R2-PAK

2.0 mg/mL each in Toluene:Hexane (50:50)

1 x 1 mL

5 x 1 mL

18 comps.

Aldrin
α-BHC
β-BHC
γ-BHC
δ-BHC
4,4'-DDD

4,4'-DDE
4,4'-DDT
Dieldrin
Endosulfan I
Endosulfan II
Endosulfan sulfate

Endrin
Endrin aldehyde
Endrin ketone
Heptachlor
Heptachlor epoxide
Methoxychlor

Method 627 Dinitroaniline Pesticides by GC/ECD

Dinitroaniline Pesticide Mixes

M-627

1.0 mg/mL each in MeOH

1 x 1 mL

4 comps.

Ethalfuralin
Paarlan (*Isopropalin*)

Tolban (*Profluralin*)
Trifluralin

M-627-R

1.0 mg/mL each in MeOH

1 x 1 mL

5 comps.

Benfluralin
Ethalfuralin
Paarlan (*Isopropalin*)

Tolban (*Profluralin*)
Trifluralin



EPA Method 600 Series

Pesticide Standards for Waste Water

Method 632 Carbamates & Urea Pesticides in Waste Water by HPLC

Carbamates & Urea Pesticides in Waste Water

M-632-SET set of 21 x 1 mL

Individual Solutions, in 0.1 mg/mL in AcCN

M-632M 1 x 1 mL

Mixture containing the 21 analytes @ 0.1 mg/mL each in AcCN

M-632M-10X 1 x 1 mL

Mixture containing the 21 analytes @ 1.0 mg/mL each in AcCN

	Cat. No.		Cat. No.
Aminocarb	M-632-01	Methomyl	M-632-12
Barban	M-632-02	Mexacarbate	M-632-13
Carbaryl	M-632-03	Monuron	M-632-14
Carbofuran	M-632-04	Monuron-TCA	M-632-15
Chlorpropham	M-632-05	Neburon	M-632-16
Diuron	M-632-06	Oxamyl	M-632-17
Fenuron	M-632-07	Propham	M-632-18
Fenuron-TCA	M-632-08	Propoxur	M-632-19
Fluometuron	M-632-09	Siduron	M-632-20
Linuron	M-632-10	Swep	M-632-21
Methiocarb	M-632-11		

Method 632.1 Carbamates & Amides in Waste Water by HPLC

Carbamates & Amides in Waste Water

M-632.1-SET set of 4 x 1 mL

Each in 0.1 mg/mL in AcCN

Vacor	M-632.1-1	Napropamide	M-632.1-3
Propanil	M-632.1-2	Carbaryl	M-632.1-4

Method 633 Organonitrogen Pesticides by GC/NPD

Organonitrogen Pesticides Mix

M-633 1 x 1 mL

0.1 mg/mL each in MeOH

6 comps.

Bromacil	Hexazinone	Terbacil
Deet	Metribuzin	Triadimefon

Method 634 Thiocarbamate Pesticides by GC/NPD

Thiocarbamate Pesticides Mix

M-634 1 x 1 mL

1.0 mg/mL each in MeOH

6 comps.

Butylate	EPTC	Pebulate
Cycloate	Molinate	Vernolate

Internal Standard

M-634-IS 1 x 1 mL

1.0 mg/mL in MeOH

Carbazole

Method 645 Amino Pesticides & Lethane by GC/NPD

Amino Pesticides Mix

M-645 1 x 1 mL

1.0 mg/mL each in Hexane

6 comps.

Alachlor	Diphenamid	Lethane
Butachlor	Fluridone	Norflurazon

HPLC 600's Additional Methods for Pesticides in Waste Water by HPLC

Method	Solutions at 0.1 mg/mL in AcCN	Cat. No.
604.1	Hexachlorophene & Dichlorophene	M-604.1
629	Cyanazine	M-629
631	Carbendazim	M-631
635	Rotenone	M-635
636	Bensulide	M-636
638	Oryzalin	M-638
639	Bendiocarb	M-639
640	Mercaptobenzothiazole	M-640
641	Thiabendazole	M-641
642	Biphenyl & o-Phenylphenol	M-642
643	Bentazon (<i>Basagran</i>)	M-643
644	Picloram	M-644

Method 680 Determination of Pesticides & PCBs in Water & Soil/Sediment by GC/MS

Pesticide Mix

M-680P 1 x 1 mL

M-680P-PAK 5 x 1 mL

At stated conc. in Toluene:Hexane (50:50)

22 comps.

Aldrin	(1,000 µg/mL)	Endosulfan I	(2,000 µg/mL)
α-BHC	(1,000 µg/mL)	Endosulfan II	(2,000 µg/mL)
β-BHC	(1,000 µg/mL)	Endosulfan sulfate	(1,000 µg/mL)
γ-BHC	(1,000 µg/mL)	Endrin	(1,000 µg/mL)
δ-BHC	(1,000 µg/mL)	Endrin aldehyde	(1,000 µg/mL)
α-Chlordane	(1,000 µg/mL)	Endrin ketone	(1,000 µg/mL)
γ-Chlordane	(1,000 µg/mL)	Heptachlor	(1,000 µg/mL)
4,4'-DDD	(1,000 µg/mL)	Heptachlor epoxide (Isomer B)	(1,000 µg/mL)
4,4'-DDE	(1,000 µg/mL)	Methoxychlor	(1,000 µg/mL)
4,4'-DDT	(1,000 µg/mL)	cis-Nonachlor	(1,000 µg/mL)
Dieldrin	(1,000 µg/mL)	trans-Nonachlor	(1,000 µg/mL)

Pesticide Mid-Level Check

M-680P-MLC 1 x 1 mL

M-680P-MLC-PAK 5 x 1 mL

At stated conc. Toluene:Hexane (50:50)

21 comps.

Aldrin	(1,000 µg/mL)	Endosulfan I	(2,000 µg/mL)
α-BHC	(1,000 µg/mL)	Endosulfan II	(2,000 µg/mL)
β-BHC	(1,000 µg/mL)	Endosulfan sulfate	(1,000 µg/mL)
γ-BHC	(1,000 µg/mL)	Endrin	(1,000 µg/mL)
δ-BHC	(1,000 µg/mL)	Endrin ketone	(1,000 µg/mL)
α-Chlordane	(1,000 µg/mL)	Heptachlor	(1,000 µg/mL)
γ-Chlordane	(1,000 µg/mL)	Heptachlor epoxide (Isomer B)	(1,000 µg/mL)
4,4'-DDD	(1,000 µg/mL)	Methoxychlor	(1,000 µg/mL)
4,4'-DDE	(1,000 µg/mL)	cis-Nonachlor	(1,000 µg/mL)
4,4'-DDT	(1,000 µg/mL)	trans-Nonachlor	(1,000 µg/mL)
Dieldrin	(1,000 µg/mL)		

Save
5 x 1 mL



EPA Method 1300 Series

Pesticide Standards for Toxicity Characteristic Leaching Procedure (TCLP)

Method 1311 Toxicity Characteristic Leaching Procedure (TCLP)

Pesticide Spiking Mix

TCLP-PES 1 x 1 mL
TCLP-PES-PAK 5 x 1 mL
 2.0 mg/mL each in MeOH, except Toxaphene 7 comps.

Chlordane	Lindane
Endrin	Methoxychlor
Heptachlor	Toxaphene (4.0 mg/mL)
Heptachlor epoxide	

Pesticide Spiking Set

TCLP-PES-1/2-SET set of 2 x 1 mL
 (CLP-PES-1 and TCLP-PES-2)

TCLP-PES-1 1 x 1 mL
TCLP-PES-1-PAK 5 x 1 mL
 2.0 mg/mL each in MeOH 5 comps.

Endrin	Lindane
Heptachlor	Methoxychlor
Heptachlor epoxide	

TCLP-PES-2 1 x 1 mL
TCLP-PES-2-PAK 5 x 1 mL
 At stated conc. in MeOH 2 comps.

Chlordane (2.0 mg/mL)	Toxaphene (4.0 mg/mL)
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Herbicide, PFB Derivative Mix

TCLP-HERB-PFB 1 x 1 mL
 0.1 mg/mL each in MtBE 2 comps.

2,4-D-PFB	2,4,5-TP-PFB
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Herbicide, PFB Derivatives

M-8150-02-PFB 1 x 1 mL
 0.1 mg/mL in MtBE

2,4-D-PFB

M-8150-04-PFB 1 x 1 mL
 0.1 mg/mL in MtBE

2,4,5-TP-PFB

Herbicide Spiking Mixes

TCLP-HERB 1 x 1 mL
TCLP-HERB-PAK 5 x 1 mL
 2.0 mg/mL each in MeOH 2 comps.

2,4-D	2,4,5-TP
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TCLP-HERB-ME 1 x 1 mL
TCLP-HERB-ME-PAK 5 x 1 mL
 2.0 mg/mL each in MeOH 2 comps.

2,4-D, Me	2,4,5-TP, Me
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Pesticides

TCLP-PES-1-QC 1 x 1 mL
TCLP-PES-1-QC-PAK 5 x 1 mL
 At stated conc. in MeOH 5 comps.

Endrin (0.2 µg/mL)	Lindane (4.0 µg/mL)
Heptachlor (0.4 µg/mL)	Methoxychlor (100 µg/mL)
Heptachlor epoxide (0.04 µg/mL)	

TCLP-PES-2-QC 1 x 1 mL
TCLP-PES-2-QC-PAK 5 x 1 mL
 At stated conc. in MeOH 2 comps.

Chlordane (0.3 µg/mL)	Toxaphene (5.0 µg/mL)
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Pesticide Set

TCLP-PES-1/2-QC-SET set of 2 x 1 mL
 (includes TCLP-PEST-1-QC & TCLP-PEST-2-QC)

Herbicides

TCLP-HERB-ME-QC 1 x 1 mL
TCLP-HERB-ME-QC-PAK 5 x 1 mL
 At stated conc. in MeOH 2 comps.

	Concentration as Methyl Derivative	as Acid
2,4-D, ME	(106.3 µg/mL)	(100 µg/mL)
2,4,5-TP, ME	(10.5 µg/mL)	(10 µg/mL)

Save
5 x 1 mL

EPA Method 1600 Series

Pesticide Standards



Method 1618 Organo-halide, Organo-phosphorus Pesticides and Phenoxyacid Herbicides by Wide Bore Capillary Column GC

Method 1618 was developed by the Industrial Technology Division (ITD) within the United States Environmental Protection Agency's (US EPA) Office of Water Regulations and Standards (OWRS) to provide improved precision and accuracy of analysis of pollutants in aqueous and solid matrices in order to determine the level of these pollutants in industrial discharges. Method 1618 is used with wide bore GC columns to analyze for organo-halide and organo-phosphorus pesticides, phenoxy-acid herbicides and herbicide esters, polychlorinated biphenyls (PCBs) and other compounds amenable to extraction and analysis by wide bore capillary column gas chromatography with halogen-specific and organo-phosphorus detectors.

The chemical compounds in the AccuStandard mixtures that follow may be determined in waters, soils, sediments and sludges by this method. The method is a consolidation of EPA Methods 608, 608.1, 614, 615, 617, 622 and 701.

Organochlorine Pesticides

M-1618-1 1 x 1 mL
M-1618-1-PAK 5 x 1 mL
 At stated conc. in Isooctane 14 comps.

Aldrin (100 ng/mL)	Endosulfan II (200 ng/mL)
Captan (200 ng/mL)	Endrin aldehyde (100 ng/mL)
Chlorobenzilate (500 ng/mL)	Heptachlor (100 ng/mL)
Diallate (250 ng/mL)	Heptachlor epoxide (100 ng/mL)
p,p'-DDE (200 ng/mL)	Lindane (100 ng/mL)
p,p'-DDT (200 ng/mL)	Methoxychlor (200 ng/mL)
Endosulfan I (200 ng/mL)	Isodrin (100 ng/mL)

M-1618-2 1 x 1 mL
 At stated conc. in Isooctane 16 comps.

α-BHC (100 ng/mL)	Dichlone (100 ng/mL)
β-BHC (100 ng/mL)	Dieldrin (100 ng/mL)
δ-BHC (100 ng/mL)	Endrin (100 ng/mL)
α-Chlordane (100 ng/mL)	Endosulfan sulfate (100 ng/mL)
γ-Chlordane (100 ng/mL)	Endrin ketone (100 ng/mL)
Carbophenothion (1000 ng/mL)	Mirex (100 ng/mL)
Captafol (200 ng/mL)	PCNB (100 ng/mL)
p,p'-DDD (100 ng/mL)	Trifluralin (200 ng/mL)

Organophosphate Pesticides

M-1618-3 1 x 1 mL
 At stated conc. in Isooctane 19 comps.

Azinphos methyl (100 ng/mL)	Merphos (200 ng/mL)
Coumaphos (50 ng/mL)	Methyl parathion (100 ng/mL)
Diazinon (100 ng/mL)	Malathion (100 ng/mL)
Dichlorvos (50 ng/mL)	Phorate (100 ng/mL)
Dimethoate (100 ng/mL)	Ronnel (100 ng/mL)
EPN (100 ng/mL)	Sulprofos (50 ng/mL)
Ethyl parathion (100 ng/mL)	Terbufos (100 ng/mL)
Ethoprop (100 ng/mL)	Tetrachlorvinphos (100 ng/mL)
Ethyl azinphos (100 ng/mL)	Trichlorofon (100 ng/mL)
Fensulfthion (200 ng/mL)	

M-1618-4 1 x 1 mL
 At stated conc. in Isooctane 16 comps.

Chlorfenvinphos (50 ng/mL)	Ethion (100 ng/mL)
Chlorpyrifos (50 ng/mL)	Famphur (200 ng/mL)
Chlorpyrifos methyl (100 ng/mL)	Fenthion (100 ng/mL)
Crotoxyphos (200 ng/mL)	Leptophos (100 ng/mL)
Dichlorofenthion (100 ng/mL)	Mevinphos (100 ng/mL)
Demeton (400 ng/mL)	Naled (100 ng/mL)
Dioxathion (600 ng/mL)	Phosmet (200 ng/mL)
Disulfoton (100 ng/mL)	Sulfotep (50 ng/mL)

Phenoxyacid Herbicides

M-8150M 1 x 1 mL
M-8150M-PAK 5 x 1 mL
 20 µg/mL each in Hexane 8 comps.

2,4-D	Dalapon
2,4-DB	Dicamba
2,4,5-T	Dichlorprop
2,4,5-TP	Dinoseb

M-8150M-2 1 x 1 mL
M-8150M-2-PAK 5 x 1 mL
 2.0 mg/mL in Hexane 2 comps.

MCPA	MCPP
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Surrogate Standards

Organochlorine Pesticide
M-1618-SS 1 x 1 mL
M-1618-SS-PAK 5 x 1 mL
 2 µg/mL in Acetone
 Dibutylchloroendate

Organophosphate Pesticide

M-1618-SP 1 x 1 mL
 2 µg/mL each in Acetone 2 comps.
 Tributyl phosphate Triphenyl phosphate

Phenoxyacid Herbicide

M-1618-SA 1 x 1 mL
 2 µg/mL in Acetone
 2,4-Dichlorophenyl acetic acid

Decomposition Solution

M-1618D 1 x 1 mL
M-1618D-PAK 5 x 1 mL
 At stated conc. in Acetone 2 comps.
 p,p'-DDT (2.0 µg/mL) Endrin (1.0 µg/mL)

GPC Calibration Solution

M-1618-GP-5ML 1 x 5 mL
 At stated conc. in Acetone 5 comps.
 Corn oil (300.0 mg/mL) Perylene (0.1 mg/mL)
 bis(2-Ethylhexyl)phthalate (15.0 mg/mL) Sulfur (0.5 mg/mL)
 Pentachlorophenol (1.4 mg/mL)

SPE Cartridge Calibration Solution

M-1618-SE 1 x 1 mL
M-1618-SE-PAK 5 x 1 mL
 0.1 µg/mL in Acetone
 2,4,6-Trichlorophenol



EPA Method 1600 Series

Pesticide Standards

Method 1656 Organo-Halide Pesticides in Municipal & Industrial Wastewater by HSD

Method 1656 is a consolidation of several EPA wastewater methods used to determine the organo-halide pesticides and polychlorinated biphenyls (PCBs) associated with the Clean Water Act, the Resource Conservation and Recovery Act, and the Comprehensive Environmental Response, Compensation and Liability Act; and other compounds amenable to extraction and analysis by wide-bore capillary column GC with a HSD.

GPC Calibration Solution

M-1600-GPC-5ML

At stated conc. in CH_2Cl_2

1 x 5 mL

5 comps.

Corn oil	(300 mg/mL)	Perylene	(0.1 mg/mL)
bis(2-Ethylhexyl)phthalate	(15 mg/mL)	Sulfur	(0.5 mg/mL)
Pentachlorophenol	(1.4 mg/mL)		

Solid-phase Extraction Cartridge Calibration Solution

M-1600-SPE

0.1 mg/mL in Acetone

1 x 1 mL

2,4,6-Trichlorophenol

Decomposition Test Solution

M-1656-DS

At stated conc. in Isooctane

1 x 1 mL

2 comps.

4,4'-DDT (2 µg/mL) Endrin (1 µg/mL)

Surrogate Spiking Solutions

CLP-PES-A

0.2 mg/mL in Acetone

1 x 1 mL

Dibutylchlorendate

CLP-032-R

0.2 mg/mL each in Acetone

1 x 1 mL

2 comps.

Decachlorobiphenyl

Tetrachloro-*m*-xylene

CLP-034

0.2 mg/mL each in Acetone

1 x 1 mL

2 comps.

Dibutylchlorendate

Tetrachloro-*m*-xylene

Calibration Solutions and Suggested Calibration Groups

M-1656-CAL-SET

7 x (3 x 1 mL) (contains all 7 calibration groups at respective low, medium and high ranges)

Calibration Group 1

M-1656-01-CAL-SET

All solutions in Isooctane

3 x 1 mL

14 comps.

Components (units in ng/mL)	Low (1X)	Medium (5X)	High (20X)
Acephate	2,000	10,000	40,000
Alachlor	20	100	400
Atrazine	1,000	5,000	20,000
β-BHC	10	50	200
Bromoxynil octanoate	50	250	1,000
Captafol	200	1,000	4,000
Diallate	200	1,000	4,000
Decachlorobiphenyl	10	50	200
Endosulfan sulfate	10	50	200
Endrin	20	100	400
Isodrin	10	50	200
Pendimethalin	50	250	1,000
Permethrin (<i>cis</i> & <i>trans</i>) *200	1,000	4,000	
Tetrachloro- <i>m</i> -xylene	5	25	100

* Actual isomer concentration is stated on certificate of product data

Calibration Group 2

M-1656-02-CAL-SET

All solutions in Isooctane

3 x 1 mL

11 comps.

Components (units in ng/mL)	Low (1X)	Medium (5X)	High (20X)
α-BHC	5	25	100
DCPA	5	25	100
4,4'-DDE	10	50	200
4,4'-DDT	10	50	200
Decachlorobiphenyl	10	50	200
Dichloro	20	100	400
Ethalfuralin	10	50	200
Fenarimol	20	100	400
Methoxychlor	20	100	400
Metribuzin	10	50	200
Tetrachloro- <i>m</i> -xylene	5	25	100

Calibration Group 3

M-1656-03-CAL-SET

All solutions in Isooctane

3 x 1 mL

10 comps.

Components (units in ng/mL)	Low (1X)	Medium (5X)	High (20X)
γ-BHC	5	25	100
γ-Chlordane	5	25	100
Decachlorobiphenyl	10	50	200
Endrin ketone	10	50	200
Heptachlor epoxide	5	25	100
Isopropalin	20	100	400
Nitrofen	20	100	400
PCNB	5	25	100
Tetrachloro- <i>m</i> -xylene	5	25	100
Trifluralin	10	50	200

Calibration Group 4

M-1656-04-CAL-SET

All solutions in Isooctane

3 x 1 mL

10 comps.

Components (units in ng/mL)	Low (1X)	Medium (5X)	High (20X)
Benfluralin	20	100	400
Chlorobenzilate	50	250	1,000
Decachlorobiphenyl	10	50	200
Dieldrin	5	25	100
Endosulfan I	10	50	200
Mirex	20	100	400
Terbacil	200	1,000	4,000
Terbutylazine	500	2,500	10,000
Tetrachloro- <i>m</i> -xylene	5	25	100
Triadimefon	100	500	2,000

Calibration Group 5

M-1656-05-CAL-SET

All solutions in Isooctane

3 x 1 mL

8 comps.

Components (units in ng/mL)	Low (1X)	Medium (5X)	High (20X)
Benfluralin	20	100	400
Captan	100	500	2,000
Chlorothalonil	20	100	400
4,4'-DDD	20	100	400
Decachlorobiphenyl	10	50	200
Norflurazon	100	500	2,000
Simazine	800	4,000	16,000
Tetrachloro- <i>m</i> -xylene	5	25	100

Calibration Group 6

M-1656-06-CAL-SET

All solutions in Isooctane

3 x 1 mL

9 comps.

Components (units in ng/mL)	Low (1X)	Medium (5X)	High (20X)
Aldrin	20	100	400
δ-BHC	5	25	100
Bromacil	100	500	2,000
Butachlor	50	250	1,000
Decachlorobiphenyl	10	50	200
Endosulfan II	10	50	200
Heptachlor	10	50	200
Kepona	100	500	2,000
Tetrachloro- <i>m</i> -xylene	5	25	100

Calibration Group 7

M-1656-07-CAL-SET

All solutions in Isooctane

3 x 1 mL

13 comps.

Components (units in ng/mL)	Low (1X)	Medium (5X)	High (20X)
Carbophenothion	80	400	1,600
Chloroneb	300	1,500	6,000
Chloropropylate	200	1,000	4,000
DBCP	25	125	500
Decachlorobiphenyl	10	50	200
Dicofol	300	1,500	6,000
Endrin aldehyde	80	400	1,600
Etridiazole	80	400	1,600
Perthane	1,000	5,000	20,000
Propachlor	500	2,500	10,000
Propanil	200	1,000	4,000
Propazine	1,000	5,000	20,000
Tetrachloro- <i>m</i> -xylene	5	25	100





EPA Method 1600 Series

Pesticide Standards

Method 1657 Organo-Phosphorus Pesticides in Municipal & Industrial Wastewater by FPD

Method 1657 is a consolidation of several EPA wastewater methods used to determine the organo-phosphorus pesticides associated with the Clean Water Act, the Resource and Conservation and Recovery Act, & the Comprehensive Environmental Response, Compensation and Liability Act; and other compounds amenable to extraction and analysis by wide-bore capillary column gas chromatography with a flame photometric detector (FPD).

GPC Calibration Solution

M-1600-GPC-5ML	1 x 5 mL
At stated conc. in CH ₂ Cl ₂	
Corn oil	(300 mg/mL)
bis(2-Ethylhexyl)phthalate	(15 mg/mL)
Pentachlorophenol	(1.4 mg/mL)
Perylene	(0.1 mg/mL)
Sulfur	(0.5 mg/mL)

Solid-phase Extraction Cartridge Calibration Solution

M-1600-SPE	1 x 1 mL
0.1 mg/mL in Acetone	
2,4,6-Trichlorophenol	

Surrogate Spiking Solution

M-1657-SS	1 x 1 mL
0.2 mg/mL each in Acetone	
Tributyl phosphate	
Triphenyl phosphate	

Calibration Solutions and Suggested Calibration Groups

Calibration Group 1

M-1657-01-R1-CAL-SET	3 x 1 mL
All solutions in Isooctane	

Components (units in ng/mL)	Low (1X)	Medium (5X)	High (20X)
Azinphos methyl	100	500	2,000
Dichlorvos	500	2,500	10,000
Disulfoton	200	1,000	4,000
Fenthion	200	1,000	4,000
Merphos (A + B)	400	2,000	8,000
Ronnel	200	1,000	4,000
Sulprofos	200	1,000	4,000
Tributyl phosphate	200	1,000	4,000
Triphenyl phosphate	200	1,000	4,000

Low	M-1657-01-R1-1X	1 mL
Medium	M-1657-01-R1-5X	1 mL
High	M-1657-01-R1-20X	1 mL

Calibration Group 3

M-1657-03-CAL-SET	3 x 1 mL
All solutions in Isooctane	

Components (units in ng/mL)	Low (1X)	Medium (5X)	High (20X)
Azinphos ethyl	200	1,000	4,000
Crotoxyphos	500	2,500	10,000
DEF	200	1,000	4,000
Fensulfthion	500	2,500	10,000
Methyl chlorpyrifos	200	1,000	4,000
Mevinphos	500	2,500	10,000
Naled	500	2,500	10,000
Parathion	200	1,000	4,000
Phosmet	500	2,500	10,000
Phosphamidon (E + Z)	100	500	2,000
Sulfotepp	200	1,000	4,000
Terbufos	200	1,000	4,000
Tributyl phosphate	200	1,000	4,000
Triphenyl phosphate	200	1,000	4,000

Low	M-1657-03-1X	1 mL
Medium	M-1657-03-5X	1 mL
High	M-1657-03-20X	1 mL

Calibration Group 4

M-1657-04-CAL-SET	3 x 1 mL
All solutions in Isooctane	

Components (units in ng/mL)	Low (1X)	Medium (5X)	High (20X)
Coumaphos	500	2,500	10,000
Diazinon	200	1,000	4,000
EPN	200	1,000	4,000
Ethion	200	1,000	4,000
Ethoprop	200	1,000	4,000
Malathion	200	1,000	4,000
Phorate	200	1,000	4,000
Tetrachlorvinphos	200	1,000	4,000
Tributyl phosphate	200	1,000	4,000
Trichloronate	200	1,000	4,000
Triphenyl phosphate	200	1,000	4,000

Low	M-1657-04-1X	1 mL
Medium	M-1657-04-5X	1 mL
High	M-1657-04-20X	1 mL

Calibration Group 2

M-1657-02-CAL-SET	3 x 1 mL
All solutions in Isooctane	

Components (units in ng/mL)	Low (1X)	Medium (5X)	High (20X)
Chlorfevinphos	200	1,000	4,000
Chlorpyrifos	200	1,000	4,000
Demeton (O + S)	400	2,000	8,000
Dichlofenthion	200	1,000	4,000
Dimethoate	100	500	2,000
Famphur	500	2,500	10,000
Leptophos	200	1,000	4,000
Methyl parathion	200	1,000	4,000
Tributyl phosphate	200	1,000	4,000
Trichlorofon	500	2,500	10,000
Tricresylphosphate	100	500	2,000
Triphenyl phosphate	200	1,000	4,000

Low	M-1657-02-1X	1 mL
Medium	M-1657-02-5X	1 mL
High	M-1657-02-20X	1 mL

M-1657-CAL-SET **4 x (3 x 1 mL)**
 Contains all 4 calibration groups at
 Low, Medium and High Ranges

Method 1658 Phenoxy-Acid Herbicides

Method 1658 consolidates several EPA wastewater methods used to determine Phenoxy-Acid Herbicides & Herbicide esters associated with the CWA, RCRA, & CERCLA; & other compounds amenable to extraction & analysis by wide-bore capillary column GC/ECD.

M-1658-CAL-SET	3 x 1 mL
All solutions in Isooctane	

Components (units in ng/mL)	Low (1X)	Medium (10X)	High (100X)
2,4-D	100	1,000	10,000
Dalapon	50	500	5,000
2,4-DB	200	2,000	20,000
2,4-Dichlorophenylacetic acid (Surrogate)	10	100	1,000
Dicamba	20	200	2,000
Dichlorprop	100	1,000	10,000

Components (units in ng/mL)	Low (1X)	Medium (10X)	High (100X)
Dichlorprop	100	1,000	10,000
Dinoseb	50	500	5,000
MCPA	5,000	50,000	500,000
MCPP	5,000	50,000	500,000
Picloram	50	500	5,000
2,4,5-T	20	200	2,000
2,4,5-TP	20	200	2,000

Method 1659 Dazomet in Municipal & Industrial Wastewater by NPD

Method 1659 is used to determine Dazomet by base hydrolysis to Methyl Isothiocyanate (MITC) and subsequent determination of MITC by wide-bore fused-silica capillary column gas chromatography with a Nitrogen Phosphorus Detector (NPD).

Recovery & Precision Solution

M-1659-RPS	1 x 1 mL
25 µg/mL in Acetone	
Methyl isothiocyanate (MITC)	

Matrix Spiking Solution

M-1659-MS	1 x 1 mL
25 µg/mL in Acetone	
Dazomet	

Calibration Solutions

M-1659-CAL-SET	3 x 1 mL	
M-1659-CAL-1X	0.2 mg/mL in Acetone	1 mL
M-1659-CAL-5X	1.0 mg/mL in Acetone	1 mL
M-1659-CAL-25X	5.0 mg/mL in Acetone	1 mL
Methyl isothiocyanate (MITC)		



EPA Method 1600 Series

Pesticide Standards

Method 1657 Organo-Phosphorus Pesticides in Municipal & Industrial Wastewater by FPD

Method 1657 is a consolidation of several EPA wastewater methods used to determine the organo-phosphorus pesticides associated with the Clean Water Act, the Resource and Conservation and Recovery Act, & the Comprehensive Environmental Response, Compensation and Liability Act; and other compounds amenable to extraction and analysis by wide-bore capillary column gas chromatography with a flame photometric detector (FPD).

GPC Calibration Solution

M-1600-GPC-5ML 1 x 5 mL
At stated conc. in CH₂Cl₂ 5 comps.

Corn oil	(300 mg/mL)
bis(2-Ethylhexyl)phthalate	(15 mg/mL)
Pentachlorophenol	(1.4 mg/mL)
Perylene	(0.1 mg/mL)
Sulfur	(0.5 mg/mL)

Solid-phase Extraction Cartridge Calibration Solution

M-1600-SPE 1 x 1 mL
0.1 mg/mL in Acetone

2,4,6-Trichlorophenol

Surrogate Spiking Solution

M-1657-SS 1 x 1 mL
0.2 mg/mL each in Acetone 2 comps.

Tributyl phosphate
Triphenyl phosphate

M-1657-CAL-SET

4 x (3 x 1 mL)

Contains all 4 calibration groups at the respective Low, Medium and High Ranges

Calibration Group 1

M-1657-01-R1-CAL-SET 3 x 1 mL
All solutions in Isooctane 9 comps.

Components (units in ng/mL)	Low (1X)	Medium (5X)	High (20X)
Azinphos methyl	100	500	2,000
Dichlorvos	500	2,500	10,000
Disulfoton	200	1,000	4,000
Fenthion	200	1,000	4,000
Merphos (A + B)	400	2,000	8,000
Ronnel	200	1,000	4,000
Sulprofos	200	1,000	4,000
Tributyl phosphate	200	1,000	4,000
Triphenyl phosphate	200	1,000	4,000

Calibration Group 2

M-1657-02-CAL-SET 3 x 1 mL
All solutions in Isooctane 12 comps.

Components (units in ng/mL)	Low (1X)	Medium (5X)	High (20X)
Chlorfevinphos	200	1,000	4,000
Chlorpyrifos	200	1,000	4,000
Demeton (O + S)	400	2,000	8,000
Dichlofenthion	200	1,000	4,000
Dimethoate	100	500	2,000
Famphur	500	2,500	10,000
Leptophos	200	1,000	4,000
Methyl parathion	200	1,000	4,000
Tributyl phosphate	200	1,000	4,000
Trichlorofon	500	2,500	10,000
Tricresylphosphate	100	500	2,000
Triphenyl phosphate	200	1,000	4,000

Calibration Group 3

M-1657-03-CAL-SET 3 x 1 mL
All solutions in Isooctane 14 comps.

Components (units in ng/mL)	Low (1X)	Medium (5X)	High (20X)
Azinphos ethyl	200	1,000	4,000
Crotoxyphos	500	2,500	10,000
DEF	200	1,000	4,000
Fensulfothion	500	2,500	10,000
Methyl chlorpyrifos	200	1,000	4,000
Mevinphos	500	2,500	10,000
Naled	500	2,500	10,000
Parathion	200	1,000	4,000
Phosmet	500	2,500	10,000
Phosphamidon (E + Z)	100	500	2,000
Sulfotepp	200	1,000	4,000
Terbufos	200	1,000	4,000
Tributyl phosphate	200	1,000	4,000
Triphenyl phosphate	200	1,000	4,000

Calibration Group 4

M-1657-04-CAL-SET 3 x 1 mL
All solutions in Isooctane 11 comps.

Components (units in ng/mL)	Low (1X)	Medium (5X)	High (20X)
Coumaphos	500	2,500	10,000
Diazinon	200	1,000	4,000
EPN	200	1,000	4,000
Ethion	200	1,000	4,000
Ethoprop	200	1,000	4,000
Malathion	200	1,000	4,000
Phorate	200	1,000	4,000
Tetrachlorvinphos	200	1,000	4,000
Tributyl phosphate	200	1,000	4,000
Trichloronate	200	1,000	4,000
Triphenyl phosphate	200	1,000	4,000

Method 1659 Dazomet in Municipal & Industrial Wastewater by NPD

Method 1659 is used to determine Dazomet by base hydrolysis to Methyl Isothiocyanate (MITC) and subsequent determination of MITC by wide-bore fused-silica capillary column gas chromatography with a Nitrogen Phosphorus Detector (NPD).

Recovery & Precision Solution

M-1659-RPS 1 x 1 mL
25 µg/mL in Acetone

Methyl isothiocyanate (MITC)

Matrix Spiking Solution

M-1659-MS 1 x 1 mL
25 µg/mL in Acetone

Dazomet

Calibration Solutions

M-1659-CAL-SET 3 x 1 mL
M-1659-CAL-1X 0.2 mg/mL in Acetone 1 mL
M-1659-CAL-5X 1.0 mg/mL in Acetone 1 mL
M-1659-CAL-25X 5.0 mg/mL in Acetone 1 mL

Methyl isothiocyanate (MITC)

EPA Method 8000 Series

Pesticide Standards for Solid Waste



Method 8080A Organochlorine Pesticides and PCBs by GC/ECD

Organochlorine Pesticides

M-8080	1 x 1 mL
M-8080-PAK	5 x 1 mL
2.0 mg/mL each in Acetone	17 comps.
Aldrin	Endosulfan I
α-BHC	Endosulfan II
β-BHC	Endosulfan sulfate
δ-BHC	Endrin
γ-BHC	Endrin aldehyde
4,4'-DDD	Heptachlor
4,4'-DDE	Heptachlor epoxide
4,4'-DDT	Methoxychlor
Dieldrin	

Organochlorine Pesticide QC Standard

M-8080-QC-R	1 x 1 mL
M-8080-QC-R-PAK	5 x 1 mL
At stated conc. in Acetone	17 comps.
Aldrin (0.02 mg/mL)	Endosulfan I (0.02 mg/mL)
α-BHC (0.02 mg/mL)	Endosulfan II (0.1 mg/mL)
β-BHC (0.02 mg/mL)	Endosulfan sulfate (0.1 mg/mL)
δ-BHC (0.02 mg/mL)	Endrin (0.1 mg/mL)
γ-BHC (0.02 mg/mL)	Endrin aldehyde (0.02 mg/mL)
4,4'-DDD (0.1 mg/mL)	Heptachlor (0.02 mg/mL)
4,4'-DDE (0.02 mg/mL)	Heptachlor epoxide (0.02 mg/mL)
4,4'-DDT (0.1 mg/mL)	Methoxychlor (0.02 mg/mL)
Dieldrin (0.02 mg/mL)	

Internal Standard

M-508-IS	1 x 1 mL
M-508-IS-PAK	5 x 1 mL
0.1 mg/mL in MtBE	
Pentachloronitrobenzene	

Surrogate Standard

CLP-032-R	1 x 1 mL
CLP-032-R-PAK	5 x 1 mL
0.2 mg/mL each in Acetone	2 comps.
Decachlorobiphenyl	Tetrachloro- <i>m</i> -xylene

Multi-Component Analytes

Polychlorinated Biphenyls, Chlordane & Toxaphene

Each at 1,000 µg/mL in Hexane **AccuPAK™ (5 x 1 mL)**

Aroclors® #	Cat. No.	1 mL	Cat. No.	PAK
Aroclor 1016	C-216S-H-10X		C-216S-H-10X-PAK	
Aroclor 1221	C-221S-H-10X		C-221S-H-10X-PAK	
Aroclor 1232	C-232S-H-10X		C-232S-H-10X-PAK	
Aroclor 1242	C-242S-H-10X		C-242S-H-10X-PAK	
Aroclor 1248	C-248S-H-10X		C-248S-H-10X-PAK	
Aroclor 1254	C-254S-H-10X		C-254S-H-10X-PAK	
Aroclor 1260	C-260S-H-10X		C-260S-H-10X-PAK	
Aroclor 1262	C-262S-H-10X		C-262S-H-10X-PAK	
Aroclor 1268	C-268S-H-10X		C-268S-H-10X-PAK	
Pesticides				
Chlordane	P-017S-H-10X		P-017S-H-10X-PAK	
Toxaphene	P-093S-H-10X		P-093S-H-10X-PAK	

Decomposition Solution

M-1618D	1 x 1 mL
M-1618D-PAK	5 x 1 mL
At stated conc. in Acetone	2 comps.
p,p'-DDT (2 µg/mL)	Endrin (1 µg/mL)

o,p'-DDT and Metabolites

M-8080-OP	1 x 1 mL
M-8080-OP-PAK	5 x 1 mL
0.25 mg/mL each in Hexane : Toluene (50:50)	3 comps.
o,p'-DDD	o,p'-DDT
o,p'-DDE	

Organochlorine Pesticide Mixture

M-8080A-ASL	1 x 1 mL
M-8080A-ASL-PAK	5 x 1 mL
250 µg/mL each in Hexane : Toluene (50:50)	17 comps.

Alternate Source

Aldrin	Endosulfan I
α-BHC	Endosulfan II
β-BHC	Endosulfan sulfate
δ-BHC	Endrin
γ-BHC	Endrin aldehyde
p,p'-DDD	Heptachlor
p,p'-DDE	Heptachlor epoxide (Isomer B)
p,p'-DDT	Methoxychlor (1000 µg/mL)
Dieldrin	

Method 8080/8081 Matrix Spike Solutions & Surrogates at Working Level

Matrix Spiking Solutions

For Water Samples

CLP-014-5ML	1 x 5 mL
CLP-014-25ML	1 x 25 mL
At stated conc. in MeOH	6 comps.
Aldrin (200 ng/mL)	Endrin (500 ng/mL)
4,4'-DDT (500 ng/mL)	Heptachlor (200 ng/mL)
Dieldrin (500 ng/mL)	Lindane (200 ng/mL)

For Waste Samples

CLP-014-5X-5ML	1 x 5 mL
CLP-014-5X-25ML	1 x 25 mL
At stated conc. in MeOH	6 comps.
Aldrin (1,000 ng/mL)	Endrin (2,500 ng/mL)
4,4'-DDT (2,500 ng/mL)	Heptachlor (1,000 ng/mL)
Dieldrin (2,500 ng/mL)	Lindane (1,000 ng/mL)

Surrogate Solutions

For Water Samples

CLP-032R-WL-10ML	1 x 10 mL
CLP-032R-WL-50ML	1 x 50 mL
CLP-032R-WL-100ML	1 x 100 mL
1 µg/mL each in Acetone	2 comps.
Decachlorobiphenyl	Tetrachloro- <i>m</i> -xylene

For Waste Samples

CLP-032R-WL-5X-10ML	1 x 10 mL
CLP-032R-WL-5X-50ML	1 x 50 mL
CLP-032R-WL-5X-100ML	1 x 100 mL
5 µg/mL each in Acetone	2 comps.
Decachlorobiphenyl	Tetrachloro- <i>m</i> -xylene



EPA Method 8000 Series

Pesticide Standards for Solid Waste

Method 8080/8081A/8081B Organochlorine Pesticides by Capillary Column GC/ECD

Single/Dual Column Organochlorine Pesticides

M-8081-SC	1 x 1 mL
M-8081-SC-PAK	5 x 1 mL
1.0 mg/mL each in Toluene : Hexane (50:50)	
Aldrin	Dieldrin
α-BHC	Endosulfan I
β-BHC	Endosulfan II
γ-BHC	Endosulfan sulfate
δ-BHC	Endrin
α-Chlordane	Endrin aldehyde
γ-Chlordane	Endrin ketone
4,4'-DDD	Heptachlor
4,4'-DDE	Heptachlor epoxide
4,4'-DDT	Methoxychlor
	20 comps.

Technical Note

M-8081A-SC was formulated for use in combination with M-8081-SC when performing single or dual column pesticide analysis. These two product formulations provide the typically analyzed pesticides in one core mixture (M-8081-SC) with the additional 7 analytes (M-8081A-SC) to meet the 27 analytes listed in Method 8081 (January 1995).

Organochlorine Pesticide Mixtures

M-8081A-SC	1 x 1 mL
M-8081A-SC-PAK	5 x 1 mL
1.0 mg/mL each in Hexane:Toluene (50:50)	
Chlorobenzilate	Hexachlorocyclopentadiene
DBCP	Isodrin
Diallate	Kepone
Hexachlorobenzene	

M-8081A-SC-R	1 x 1 mL
M-8081A-SC-R-PAK	5 x 1 mL
1.0 mg/mL each in Hexane : Toluene (50:50)	
Chlorobenzilate	Hexachlorobenzene
1,2-Dibromo-3-chloropropane	Hexachlorocyclopentadiene
Diallate	Isodrin

Dual Column Organochlorine Pesticides

M-8081-DC	1 x 1 mL
1.0 mg/mL each in Hexane : Toluene (50:50)	

Alachlor	Etridiazole
Captafol	Hexachlorobenzene
Captan	Hexachlorocyclopentadiene
Chlorobenzilate	Isodrin
Chloroneb	Mirex
Chloropropylate	trans-Nonachlor
Chlorothalonil	PCNB
DBCP	Perthane
DCPA	Propachlor
Diallate	Permethrin * (cis & trans)
Dicofol	Trifluralin

* isomer concentration as stated on certificate of product data

Tailing Test Standard

M-8081-T	1 x 1 mL
1.0 mg/mL each in Hexane : Toluene (50:50)	

Carbophenothion	Kepone
Dichlone	Nitrofen

M-8081-T-R	1 x 1 mL
1.0 mg/mL each in Hexane : Toluene (50:50)	

Carbophenothion	Nitrofen
Dichlone	

Surrogate Standards

CLP-032-R	1 x 1 mL
CLP-032-R-PAK	5 x 1 mL
0.2 mg/mL each in Acetone	

Decachlorobiphenyl	Tetrachloro- <i>m</i> -xylene
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CLP-034	1 x 1 mL
CLP-034-PAK	5 x 1 mL
0.2 mg/mL each in Acetone	

Dibutylchlorendate	Tetrachloro- <i>m</i> -xylene
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M-8081-SS-X	1 x 1 mL
M-8081-SS-X-PAK	5 x 1 mL
1.0 mg/mL in Acetone	

2-Bromobiphenyl

For Dual Column

M-8081-SS-DC	1 x 1 mL
M-8081-SS-DC-PAK	5 x 1 mL
1.0 mg/mL in Acetone	

4-Chloro-3-nitrobenzotrifluoride

Internal Standards

M-8081-IS	1 x 1 mL
M-8081-IS-PAK	5 x 1 mL
1.0 mg/mL in Acetone	

Pentachloronitrobenzene (PCNB)

M-8081-IS-X	1 x 1 mL
M-8081-IS-X-PAK	5 x 1 mL
1.0 mg/mL in Acetone	

α,α-Dibromo- <i>m</i> -xylene

For Dual Column

M-8081-IS-DC	1 x 1 mL
M-8081-IS-DC-PAK	5 x 1 mL
1.0 mg/mL in Acetone	

1-Bromo-2-nitrobenzene

Decomposition Standard

M-8081-DS	1 x 1 mL
M-8081-DS-PAK	5 x 1 mL
0.2 mg/mL each in Hexane	

4,4'-DDT	Endrin
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Save
5 x 1 mL

EPA Method 8000 Series

Pesticide Standards for Solid Waste



Method 8085 Pesticides by GC/AED

Nitrogen Containing Pesticides Mix #1

M-8085-N1
At stated conc. in MtBE
1 x 5 mL
20 comps.

Alachlor (18 µg/mL)	Norflurazon (10 µg/mL)
Atrazine (5 µg/mL)	Oxyfluorfen (20 µg/mL)
Bromacil (20 µg/mL)	Pendimethalin (7.5 µg/mL)
Dichlobenil (10 µg/mL)	Prometryne (5 µg/mL)
Diphenamid (15 µg/mL)	Pronamide (20 µg/mL)
Ethalfuralin (7.5 µg/mL)	Propachlor (12 µg/mL)
Fluridone (30 µg/mL)	Simazine (5 µg/mL)
Metolachlor (20 µg/mL)	Tebuthiuron (7.5 µg/mL)
Metribuzin (5 µg/mL)	Terbacil (15 µg/mL)
Napropamide (15 µg/mL)	Trifluralin (7.5 µg/mL)

Mix #2

M-8085-N2
At stated conc. in MtBE
1 x 5 mL
18 comps.

Ametryn (5 µg/mL)	Molinatate (10 µg/mL)
Benfluralin (7.5 µg/mL)	Prebane (5 µg/mL)
Butylate (10 µg/mL)	Profluralin (12 µg/mL)
Chlorpropham (20 µg/mL)	Prometon (5 µg/mL)
Chlorothalonil (12 µg/mL)	Propargite (10 µg/mL)
Cyanazine (7.5 µg/mL)	Propazine (5 µg/mL)
Cycloate (10 µg/mL)	Tillam (10 µg/mL)
EPTC (10 µg/mL)	Triallate (13 µg/mL)
Hexazinone (7.5 µg/mL)	Vernolate (10 µg/mL)

Mix #3

M-8085-N3
At stated conc. in MtBE
1 x 5 mL
15 comps.

Butachlor (30 µg/mL)	Metalaxyl (30 µg/mL)
Carboxin (30 µg/mL)	MGK-264 (40 µg/mL)
Diallate (35 µg/mL)	cis-Permethrin (10 µg/mL)
Fenarimol (15 µg/mL)	Resmethrin (10 µg/mL)
Fenvalerate (20 µg/mL)	Sumithrin (10 µg/mL)
Gesatamine (7.5 µg/mL)	Triadimefon (13 µg/mL)
Hexazinone (7.5 µg/mL)	Triallate (15 µg/mL)
Karmex (30 µg/mL)	

Chlorinated Pesticides

Mix #1

M-8085-C1
2.5 µg/mL each in Hexane
1 x 5 mL
23 comps.

Aldrin	Endosulfan II
α-BHC	Endosulfan sulfate
β-BHC	Endrin
γ-BHC	Endrin aldehyde
δ-BHC	Endrin ketone
γ-Chlordane	Heptachlor
α-Chlordane	Heptachlor epoxide (Isomer B)
p,p'-DDD	Methoxychlor
p,p'-DDE	cis-nonachlor
p,p'-DDT	Oxychlordane
Dieldrin	Pentachloroanisole
Endosulfan I	

Mix #2

M-8085-C2
At stated conc. in Hexane
1 x 5 mL
9 comps.

Captan (6.75 µg/mL)	Hexachlorobenzene (2.5 µg/mL)
Captafol (12.5 µg/mL)	Kelthane (10 µg/mL)
o,p'-DDE (2.5 µg/mL)	Mirex (2.5 µg/mL)
o,p'-DDD (2.5 µg/mL)	trans-Nonachlor (2.5 µg/mL)
o,p'-DDT (2.5 µg/mL)	

Organo Phosphorous Pesticides Mix #1

M-8085-P1
At stated conc. in MtBE
1 x 5 mL
14 comps.

Azinphos ethyl (8 µg/mL)	EPN (5 µg/mL)
Carbophenothion (5 µg/mL)	Ethion (3.5 µg/mL)
Chlorpyrifos methyl ester (4 µg/mL)	Fenamiphos (5 µg/mL)
Demeton (mixed isomers) (7 µg/mL)	Fenitrothion (3.5 µg/mL)
Disulfoton (3 µg/mL)	Malathion (4 µg/mL)
Dursban (4 µg/mL)	Merphos (6 µg/mL)
Dyfonate (3 µg/mL)	Sulfotep (3 µg/mL)

Mix #2

M-8085-P2
At stated conc. in MtBE
1 x 5 mL
12 comps.

Azinphos methyl (8 µg/mL)	Fenthion (3.5 µg/mL)
Bolstar (3.5 µg/mL)	Imidan (5.5 µg/mL)
Diazinon (4 µg/mL)	Methyl parathion (3.5 µg/mL)
Dimethoate (4 µg/mL)	Parathion (4 µg/mL)
Ethoprop (4 µg/mL)	Phorate (3.5 µg/mL)
Fensulfothion (5 µg/mL)	Ronnel (3.5 µg/mL)

Herbicides as Methyl Derivatives Mix #1

M-8085-H1-M
At stated conc. in MtBE
1 x 5 mL
13 comps.

Acifluorfen methyl ester (20 µg/mL)	4-Nitroanisole (10 µg/mL)
Bentazon methyl ester (7.5 µg/mL)	Pentachloroanisole (2.5 µg/mL)
Bromoxynil methyl ether (5 µg/mL)	2,3,4,5-Tetrachloroanisole (2.75 µg/mL)
Chloramben methyl ester (5 µg/mL)	2,3,4,6-Tetrachloroanisole (2.75 µg/mL)
Dinoseb methyl ether (7.5 µg/mL)	2,4,5-Trichloroanisole (3 µg/mL)
MCPA methyl ester (10 µg/mL)	2,4,6-Trichloroanisole (3 µg/mL)
MCPP methyl ester (10 µg/mL)	

Mix #2

M-8085-H2-M
At stated conc. in MtBE
1 x 5 mL
13 comps.

Dalapon methyl ester (4 µg/mL)	loxynil methyl ether (5 µg/mL)
2,4-D methyl ester (5 µg/mL)	Methyl 3,5-Dichlorobenzoate (5 µg/mL)
2,4-DB methyl ester (6 µg/mL)	Picloram methyl ester (5 µg/mL)
DCPA methyl ester (4 µg/mL)	Silvex methyl ester (4 µg/mL)
Dicamba methyl ester (5 µg/mL)	2,4,5-T methyl ester (4 µg/mL)
Dichlorprop methyl ester (5.5 µg/mL)	Triclopyr methyl ester (4 µg/mL)
Diclofop methyl (7.5 µg/mL)	

Surrogates

M-8085-PEST-SS
At stated conc. in MtBE
1 x 5 mL
4 comps.

Decachlorobiphenyl (10 µg/mL)	1,3-Dimethyl-2-nitrobenzene (20 µg/mL)
4,4'-Dibromooctafluorobiphenyl (20 µg/mL)	Triphenylphosphate (20 µg/mL)

Alternate Surrogates

M-8085-PEST-SS2
20 µg/mL each in MtBE
1 x 5 mL
2 comps.

Dibutylchlorendate	TCMX
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Herbicide Surrogate

M-8085-HERB-SS
20 µg/mL in MtBE
1 x 5 mL

2,4,6-Tribromophenol

Compound Independent Calibration (CIC) Mix

M-8085-CIC
At stated conc. in MtBE
1 x 5 mL
15 comps.

Decachlorobiphenyl (492 ng/mL)	Pentachloronitrobenzene (1690 ng/mL)
Diazinon (9800 ng/mL)	Phorate (2100 ng/mL)
4,4'-Dibromooctafluorobiphenyl (1000 ng/mL)	Silvex methyl ester (400 ng/mL)
Dichlobenil (6140 ng/mL)	Terbufos (7600 ng/mL)
Dursban (5680 ng/mL)	2,4,6-Tribromoanisole (2870 ng/mL)
Ethoprop (391 ng/mL)	1,2,3-Trichlorobenzene (6810 ng/mL)
loxynil methyl ether (500 ng/mL)	Trifluralin (16000 ng/mL)
Malathion (1070 ng/mL)	



EPA Method 8000 Series

Pesticide Standards for Solid Waste

Method 8140 Organophosphorous Pesticides by GC/NPD/ELCD/FPD

Organophosphorous Pesticides

M-8140M	1 x 1 mL
M-8140M-PAK	5 x 1 mL
0.04 mg/mL each in Hexane	
M-8140M-5X	1 x 1 mL
M-8140M-5X-PAK	5 x 1 mL
0.2 mg/mL each in Hexane:Acetone (19:1)	20 comps.

Azinphosmethyl (<i>Guthion</i>) (01)	Diazinon (06)
Bolstar (02)	Dichlorovos (07)
Chlorpyrifos (03)	Disulfoton (<i>Di-Syston</i>) (08)
Coumaphos (04)	Ethoprop (09)
Demeton (05)	Fensulfothion (10)

Organophosphorous Pesticide Set

M-8140-SET	20 x 1 mL
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Individual solutions listed below, each at 1.0 mg/mL in Hexane

Fenthion (11)	Phorate (<i>Thimet</i>) (16)
Merphos (12)	Ronnel (17)
Methyl parathion (13)	Stirophos (18)
Mevinphos (<i>Phosdrin</i>) (14)	Tokuthion (19)
Naled (<i>Dibrom</i>) (15)	Trichloronate (<i>Agritox</i>) (20)

Method 8141A Additions to Method 8140 Organophosphorus Pesticides by GC/NPD

Mix #1

M-8141M	1 x 1 mL
M-8141M-PAK	5 x 1 mL
Mixture, 0.2 mg/mL each in Hexane	7 comps.
M-8141-SET	7 x 1 mL
Individual solutions, Each at 1.0 mg/mL in Hexane, Dimethoate is in Hexane:Acetone (9:1)	

Compound	Cat. No.	1 mL
Dimethoate	M-8141-01	
EPN	M-8141-02	
Malathion	M-8141-03	
Monocrotophos	M-8141-04	
Ethyl parathion	M-8141-05	
Sulfotep	M-8141-06	
TEPP	M-8141-07	

Mix #2

M-8141A-1M	1 x 1 mL
Mixture, 0.2 mg/mL each in Hexane	10 comps.
M-8141A-1-SET	10 x 1 mL
Individual solutions, Each at 1.0 mg/mL in Hexane	

Compound	Cat. No.	1 mL
Azinphos ethyl	M-8141A-1-01	
Carbophenothion	M-8141A-1-02	
Chlorfenvinphos	M-8141A-1-03	
Dioxathion	P-129S-H-10X	
Ethion	P-148S-H-10X	
Famphur	M-8141A-1-06	
Leptophos	P-206S-H-10X	
Phosmet	M-8141A-1-08	
Phosphamidon	M-8141A-1-09	
Terbuphos	P-208S-H-10X	

Mix #3

M-8141A-2M	1 x 1 mL
Mixture, 0.2 mg/mL each in Hexane	9 comps.
M-8141A-2-SET	9 x 1 mL
Individual solutions, Each at 1.0 mg/mL in Hexane	

Aspon (01)	Fenitrothion (06)
Chlorpyrifos methyl ester (02)	Fonophos (07)
Crotoxyphos (03)	Thionazin (08)
Dichlofenthion (04)	Trichlorfon (09)
Dicrotophos (05)	

Internal Standard for NPD

M-8141A-IS	1 x 1 mL
M-8141A-IS-PAK	5 x 1 mL
1.0 mg/mL in Acetone	

1-Bromo-2-nitrobenzene

Industrial Chemicals & Triazine Herbicides

M-8141A-IC	1 x 1 mL
0.2 mg/mL each in Hexane	2 comps.

Hexamethylphosphoramide (*HMPA*) Tri-o-cresylphosphate (*TOCP*)

M-8141A-TH	1 x 1 mL
M-8141A-TH-PAK	5 x 1 mL
0.2 mg/mL each in Acetone	2 comps.

Atrazine Simazine

M-8141B-HSD	1 x 1 mL
M-8141B-HSD-PAK	5 x 1 mL
0.2 mg/mL each in Hexane	9 comps.

Chlorpyrifos	Ronnel
Coumaphos	Stirophos
Dichlorovos	Trichloronate
EPN	Tokuthion
Naled	

Technical Note

For use with a halogen-specific detector (i.e., electrolytic conductivity or microcoulometry). ECD should only be used when previous analyses have demonstrated that interferences do not adversely affect quantitation.

Surrogate Standard for NPD & FPD

M-8141A-SS	1 x 1 mL
M-8141A-SS-PAK	5 x 1 mL
1.0 mg/mL each in Acetone	2 comps.

Tributylphosphate Triphenylphosphate

Surrogate Standard for NPD only

M-8141A-SS-X	1 x 1 mL
M-8141A-SS-X-PAK	5 x 1 mL
1.0 mg/mL in Acetone	

4-Chloro-3-nitrobenzotrifluoride

EPA Method 8000 Series

Pesticide Standards for Solid Waste



Method 8150A Chlorinated Herbicides by GC/ECD

Chlorinated Herbicides in Ground Water (Rev. 1, July 1992) & their Methyl Derivatives

(mg/mL)		Herbicides Acids (in MeOH)	Methyl Derivative (in Hexane)	1 mL
Compound	Conc.	Cat. No.	Cat. No.	
2,4-D	0.2	M-8150S-A-01	M-8150-01	
2,4-DB	0.2	M-8150S-A-02	M-8150-02	
2,4,5-T	0.2	M-8150S-A-03	M-8150-03	
2,4,5-TP	0.2	M-8150S-A-04	M-8150-04	
Dalapon	0.2	M-8150S-A-05	M-8150-05	
Dicamba	0.2	M-8150S-A-06	M-8150-06	

Underivatized Solution (Varied Concentration)

M-8150A 1 x 1 mL
M-8150A-PAK 5 x 1 mL
 0.1 mg/mL in MeOH, except MCPA and MCPP 10 comps.

2,4-D	Dinoseb
Dalapon	MCPA (10 mg/mL)
2,4-DB	MCPP (10 mg/mL)
Dicamba	2,4,5-TP
Dichlorprop	2,4,5-T

Underivatized Solution (Equal Concentration)

M-8150M-A 1 x 1 mL
M-8150M-A-PAK 5 x 1 mL
 0.2 mg/mL each in MeOH 10 comps.

2,4-D	Dinoseb
Dalapon	MCPA
2,4-DB	MCPP
Dicamba	2,4,5-TP
Dichlorprop	2,4,5-T

Underivatized Surrogate Standards

M-8150B-SS 1 x 1 mL
M-8150B-SS-PAK 5 x 1 mL
 0.1 mg/mL in Acetone
M-8150B-SS-10X 1 x 1 mL
 1.0 mg/mL in Acetone

2,4-Dichlorophenylacetic acid

Internal Standard

M-8151-IS 1 x 1 mL
M-8151-IS-PAK 5 x 1 mL
 0.25 mg/mL in Acetone

4,4'-Dibromooctafluorobiphenyl

(mg/mL)		Herbicides Acids (in MeOH)	Methyl Derivative (in Hexane)	1 mL
Compound	Conc.	Cat. No.	Cat. No.	
Dichlorprop	0.2	M-8150S-A-07	M-8150-07	
Dinoseb	0.2	M-8150S-A-08	M-8150-08	
MCPA	2.0	M-8150S-A-09	M-8150-09	
MCPP	2.0	M-8150S-A-10	M-8150-10	

Set of 10 x 1 mL **M-8150A-SET** **M-8150-SET**

Methyl Derivatives Solutions (Varied Concentration)

M-8150 1 x 1 mL
 0.1 mg/mL in MeOH, except MCPA and MCPP 10 comps.

2,4-D ME	Dinoseb ME
Dalapon ME	MCPA ME (10 mg/mL)
2,4-DB ME	MCPP ME (10 mg/mL)
Dicamba ME	2,4,5-TP ME
Dichlorprop ME	2,4,5-T ME

Methyl Derivatives Solutions (Equal Concentration)

M-8150M-SET 2 x 1 mL
(M-8150M, M-8150M-2)
M-8150M 1 x 1 mL
M-8150M-PAK 5 x 1 mL
 20 µg/mL each in Hexane 8 comps.

2,4-D ME	Dichlorprop ME
Dalapon ME	Dinoseb ME
2,4-DB ME	2,4,5-TP ME
Dicamba ME	2,4,5-T ME

M-8150M-2 1 x 1 mL
M-8150M-2-PAK 5 x 1 mL
 2,000 µg/mL each in Hexane 2 comps.

MCPA ME MCPP ME

Methyl Derivative Surrogate Standard

M-515-SS 1 x 1 mL
M-515-SS-PAK 5 x 1 mL
 0.1 mg/mL in MtBE

2,4-Dichlorophenylacetic acid methyl ester

Save
5 x 1 mL



EPA Method 8000 Series

Pesticide Standards for Solid Waste

Method 8151/8151A Chlorinated Herbicides by GC/ECD

Methyl Derivatives

M-8151
0.1 mg/mL each in MtBE, except MCPA & MCPP
1 x 1 mL
18 comps.

Acifluorfen	Dichlorprop
Bentazon	Dinoseb
Chloramben	MCPA (10 mg/mL)
2,4-D	MCPP (10 mg/mL)
Dalapon	4-Nitrophenol
2,4-DB	Pentachlorophenol
DCPA	Picloram
Dicamba	2,4,5-TP
3,5-Dichlorobenzoic acid	2,4,5-T

Underivatized

M-8151A
M-8151A-PAK
0.1 mg/mL each in Acetone, except MCPA & MCPP
1 x 1 mL
5 x 1 mL
18 comps.

Acifluorfen	Dichlorprop
Bentazon	Dinoseb
Chloramben	MCPA (10 mg/mL)
2,4-D	MCPP (10 mg/mL)
Dalapon	4-Nitrophenol
2,4-DB	Pentachlorophenol
DCPA diacid	Picloram
Dicamba	2,4,5-TP
3,5-Dichlorobenzoic acid	2,4,5-T

PFB Derivatized Chlorinated Herbicides

M-8150-02-PFB
0.1 mg/mL in MtBE
1 x 1 mL

2,4-D-PFB

M-8150-04-PFB
0.1 mg/mL in MtBE
1 x 1 mL

2,4,5-TP-PFB

Internal Standards

M-8151-IS
M-8151-IS-PAK
0.25 mg/mL in Acetone
1 x 1 mL
5 x 1 mL

4,4'-Dibromooctafluorobiphenyl

M-8151-IS-2
M-8151-IS-2-PAK
0.25 mg/mL in Acetone
1 x 1 mL
5 x 1 mL

1,4-Dichlorobenzene

Surrogate Standards

M-515-SS
M-515-SS-PAK
0.1 mg/mL in MtBE
1 x 1 mL
5 x 1 mL

2,4-Dichlorophenylacetic acid methyl ester

M-8150B-SS
M-8150B-SS-PAK
0.1 mg/mL in Acetone
1 x 1 mL
5 x 1 mL
M-8150B-SS-10X
1.0 mg/mL in Acetone
1 x 1 mL

2,4-Dichlorophenylacetic acid

 Save
5 x 1 mL

EPA Method 8000 Series

Pesticide Standards for Solid Waste



ASL Method 8270C/D Semi-Volatiles by GC/MS ASL

These additional formulations, used in conjunction with the ASL 8270C/D formulations and designed on a functional group basis, will allow the chemist to analyze a complete method 8270C/D analyte list.

Alternate Source

Organophosphorous Pesticide Mix

M-8270-09-ASL 1 x 1 mL
2.0 mg/mL each in CH₂Cl₂ 9 comps.

Dimethoate	o,o,o-Triethylphosphorothioate
Disulfoton	Methyl parathion
Famphur	Parathion
Thionazin	Phorate
Sulfotep	

Pesticide Mix

M-8270-10-ASL 1 x 1 mL
2.0 mg/mL each in CH₂Cl₂ 6 comps.

Aramite	Isodrin
Chlorobenzilate	Kepone
Diallate	Pronamide

Organochlorine Pesticide Mix

M-8270-14-ASL 1 x 1 mL
2.0 mg/mL each in Acetone 17 comps.

Aldrin	4,4'-DDE	Endrin
α-BHC	4,4'-DDT	Endrin aldehyde
β-BHC	Dieldrin	Heptachlor
δ-BHC	Endosulfan I	Heptachlor epoxide
γ-BHC	Endosulfan II	Methoxychlor
4,4'-DDD	Endosulfan sulfate	

M-8270-16 1 x 1 mL
1000 µg/mL each in CH₂Cl₂ 10 comps.

Anilazine	Dichlone	Sulfoxide
Azinphos methyl	Dioxathion	Sulfallate
Barbamate	Mirex	Trifluralin
Demeton (mixed isomers)		

M-8270-17 1 x 1 mL
1000 µg/mL each in CH₂Cl₂ 7 comps.

Brominal	Dinex	Fluchloralin
Captafol	Dinocap	Nitrofen
Captan		

M-8270-19 1 x 1 mL
1000 µg/mL each in CH₂Cl₂ 12 comps.

Carbophenothion	Fensulfothion	Phosalone
Coumaphos	Fenthion	Imidan (Phosmet)
EPN	Leptophos	Terbufos
ETHION	Malathion	Tetrachlorvinphos

M-8270-20 1 x 1 mL
1000 µg/mL each in CH₂Cl₂ 9 comps.

Chlorfenvinphos	Dicrotophos	Naled
Ciodrin (Crotoxyphos)	Mevinphos	Phosphamidon
Dichlorvos	Monocrotophos	TEPP (Tetraethyl pyrophosphate)

M-8270-21 1 x 1 mL
2.0 mg/mL each in Acetone 3 comps.

α-Chlordane	Endrin ketone
γ-Chlordane	

M-8270-07 1 x 1 mL
2.0 mg/mL each in CH₂Cl₂ 15 comps.

Aramite	Dinoseb	Parathion
Chlorobenzilate	Disulfoton	Phorate
Diallate	Famphur	Silvex (2,4,5-TP)
2,4-D	Kepone	Sulfotep
Dimethoate	Methyl parathion	Thionazin

Carbamates/Pesticides

M-8270-18 1 x 1 mL
1000 µg/mL each in CH₂Cl₂ 6 comps.

Carbaryl	Mexacarbate
Carbofuran	Schradan (Octamethylpyrophosphoramide)
Ethyl carbamate	Phenobarbital

Method 8318 N-Methylcarbamates by HPLC

N-Methylcarbamates

M-8318-SET 10 x 1 mL
Each at 0.1 mg/mL in MeOH

M-8318M 1 x 1 mL
Mixture, 0.1 mg/mL each in MeOH 10 comps.

Aldicarb (01)	3-Hydroxycarbofuran (06)
Aldicarb sulfone (02)	Methiocarb (07)
Carbaryl (03)	Methomyl (08)
Carbofuran (04)	Promecarb (09)
Dioxacarb (05)	Propoxur (10)

Method 8321 Non-Volatile Compounds by HPLC/TSP/MS or UV Solvent Extractable

Chlorinated Phenoxyacid Herbicide Mix

M-8321-HERB 1 x 1 mL
0.1 mg/mL each in AcCN 14 comps.

Dalapon	Dinoseb
Dicamba	MCPA
2,4-D	MCPP
2,4-D, butoxyethanol ester	Silvex (2,4,5-TP)
2,4-D, ethylhexyl ester	2,4,5-T
2,4-DB	2,4,5-T, butyl ester
Dichlorprop	2,4,5-T, butoxyethanol ester

Organophosphorus Pesticide Mix

M-8321-OP 1 x 1 mL
0.1 mg/mL each in AcCN 15 comps.

Asulam	Methyl parathion
Dichlorvos	Monocrotophos
Dimethoate	Naled
Disulfoton	Phorate
Famphur	Thiofanox
Fensulfothion	Trichlorfon
Merphos	Tris(2,3-Dibromopropyl)phosphate
Methomyl	

Method 8325 Benzidines & Nitrogen containing Pesticides by L-L or L-S Extraction & RP HPLC/Particle Beam/MS

Benzidine/Pesticide Mix

M-553 1 x 1 mL
At stated conc. in AcCN : MeOH (50:50) 13 comps.

Benzidine (250 µg/mL)	3,3'-Dimethylbenzidine (350 µg/mL)
Benzoylprop ethyl (350 µg/mL)	Diuron (450 µg/mL)
Caffeine (300 µg/mL)	Linuron (1,300 µg/mL)
Carbaryl (1,000 µg/mL)	Monuron (400 µg/mL)
o-Chlorophenyl thiourea (750 µg/mL)	Rotenone (3,200 µg/mL)
3,3'-Dichlorobenzidine (250 µg/mL)	Siduron (450 µg/mL)
3,3'-Dimethoxybenzidine (750 µg/mL)	

Performance Check Solution

M-553-PC 1 x 1 mL
0.1 mg/mL in AcCN

DFTPPO (Decafluorotriphenylphosphine oxide)



Regional Standards

European Methodologies

Pesticide Standards

The following Pesticide Standards are for German Regulations - For residue thresholds. Swiss Regulations - For components and contaminants in food. DFG collected methods.

Pesticide / Congener Mix #1

AE-00010 1 x 1 mL
AE-00010-10ML 1 x 10 mL
 At stated conc. (µg/mL) in Toluene 31 comps.

2,4,4'-Trichlorobiphenyl	1
2,2',5,5'-Tetrachlorobiphenyl	1
2,2',4,5,5'-Pentachlorobiphenyl	1
2,2',3,4,4',5'-Hexachlorobiphenyl	1
2,2',4,4',5,5'-Hexachlorobiphenyl	1
2,2',3,4,4',5,5'-Heptachlorobiphenyl	1
Aldrine	10
cis-Chlordane	10
trans-Chlordane	10
oxy-Chlordane	10
o,p'-DDD	10
p,p'-DDD	10
o,p'-DDE	10
p,p'-DDE	10
o,p'-DDT	10
p,p'-DDT	10
Dieldrine	10
Endosulfan I	10
Endosulfan II	10
Endrine	10
α-HCH	10
β-HCH	10
γ-HCH	10
δ-HCH	10
Heptachlor	10
cis-Heptachlorepoxyde	10
trans-Heptachlorepoxyde	10
Hexachlorbenzene	10
Isodrin	10
Methoxychlor	10
Mirex	10

Pesticide Mix #2

AE-00011 1 x 1 mL
AE-00011-10ML 1 x 10 mL
 10 µg/mL each in Toluene 22 comps.

Anilazine	Tecnacene
Captan	Tetradifon
Chlorthalonil	Tetrasul
Clorfenson	Triadimefon
Dichlofluanid	Triadimenol
Dicofol	Trifluarin
Endosulfane-sulfate	Pentachloroaniline
Fenson	Procymidon
Folpet	Propyzamid
Imazalil	Quintozen
Iprodion	Vinclozolin

Pesticide Mix #3

AE-00012 1 x 1 mL
AE-00012-10ML 1 x 10 mL
 At stated conc. (µg/mL) in Toluene 10 comps.

Captafol	200
Captan	100
Demethon-S-methyl	500
Demethon-S-methyl-sulfone	500
Dicofol	200
Pentachlorophenol	100
Tetrachlorvinphos	10
Trichlorfon	100
Tolyfluaniid	100
Vamidithion	200

Pesticide Mix #4

AE-00013 1 x 1 mL
 At stated conc. (µg/mL) in Toluene 5 comps.

Cyproconazole	500
Hexaconazole	500
Penconazole	500
Tebuconazole	500
Tetrachlorvinphos	10

Pesticide Mix #5

AE-00014 1 x 1 mL
 At stated conc. (µg/mL) in Ethyl acetate 8 comps.

Atrazine	200
Cyanazine	200
Desmertryn	500
Metribuzin	500
Prometryne	500
Simazine	200
Terbutryn	500
Tetrachlorvinphos	10

Tetrachlorvinphos Surrogate / Internal Standard

AE-00047 1 x 1 mL
 1000 µg/mL in Acetonitrile

Tetrachlorvinphos

Pesticide Mix #6

AE-00015 1 x 1 mL
AE-00015-10ML 1 x 10 mL
 At stated conc. (µg/mL) in Toluene 8 comps.

Chlorpyrifos-methyl	100
Diazinon	100
Ethion	100
Etrimfos	50
Iodofenphos	200
Malathion	100
Phosphamidon	200
Tetrachlorvinphos	10

Pesticide Mix #7

AE-00016 1 x 1 mL
AE-00016-10ML 1 x 10 mL
 At stated conc. (µg/mL) in Toluene 8 comps.

Bromophos-methyl	100
Bromophos-ethyl	150
Fenitrothion	200
Methacryfos	150
Omethoate	150
Phosalone	100
Tetrachlorvinfos	10
Tolclofos-methyl	100

Pesticide Mix #8

AE-00017 1 x 1 mL
AE-00017-10ML 1 x 10 mL
 At stated conc. (µg/mL) in Toluene:Acetone:Hexane (18:1:1) 6 comps.

Chlorbufam	500
Chlorpropham	500
Dichlobenil	200
Imazalil	500
Pyrazon	500
2,3,5,6-Tetrachloronitrobenzene	100

Pesticide Mix #9

AE-00018 1 x 1 mL
AE-00018-10ML 1 x 10 mL
 At stated conc. (µg/mL) in Toluene 9 comps.

Azinophos-ethyl	100
Fenchlorvos	100
Fonophos	150
Methidathion	100
Mevinphos	200
Parathion-ethyl	150
Parathion-methyl	100
Pirimiphos-methyl	100
Tetrachlorvinphos	10

Pesticide Mix #10

AE-00019 1 x 1 mL
AE-00019-10ML 1 x 10 mL
 At stated conc. (µg/mL) in Toluene 7 comps.

Benalaxyl	500
Carbaryl	500
Oxadixyl	500
Terbutylazine	250
Tetrachlorvinphos	10
Triadimefon	500
Triadimenol	500

Pesticide Standards continued on next page



Pesticide Standards (Continued)

The following Pesticide Standards are for German Regulations - For residue thresholds. Swiss Regulations - For components and contaminants in food. DFG collected methods.

Pesticide Mix #11

AE-00020 1 x 1 mL
AE-00020-10ML 1 x 10 mL
 10 µg/mL each in Toluene 19 comps.

Aldrin	β-HCH
Chloridazon	γ-HCH
o,p'-DDD	δ-HCH
p,p'-DDD	Heptachlor
o,p'-DDE	cis-Heptachlorepoxyde
p,p'-DDE	trans-Heptachlorepoxyde
o,p'-DDT	Hexachlorobenzene
p,p'-DDT	Tecnacene
Endrin	Tetrachlorvinphos
α-HCH	

Pesticide Mix #12

AE-00021 1 x 1 mL
AE-00021-10ML 1 x 10 mL
 At stated conc. (µg/mL) in Toluene 9 comps.

Carbophention	100
Disulfoton	150
Fenthion	100
Methamidophos	100
Phorate	150
Phorate-sulfatone	100
Phorate-sulfone	150
Tetrachlorvinphos	10
Thiomethon	100

Pesticide Mix #13

AE-00022 1 x 1 mL
AE-00022-10ML 1 x 10 mL
 At stated conc. (µg/mL) in Toluene 8 comps.

Chlorfenvinphos (CFVP)	100
Chlorpyrifos	100
Dichlorvos	100
Dimethoate	100
Heptenophos	100
Quinalphos	100
Tetrachlorvinphos	10
Triazophos	100

Pesticide Mix #14

AE-00023 1 x 1 mL
AE-00023-10ML 1 x 10 mL
 At stated conc. (µg/mL) in Toluene 10 comps.

Cyfluthrin	500
λ-Cyhalothrin	500
Cypermethrin	500
Deltamethrin	500
Dichloran	100
Fenvalerate	500
Pendimethalin	100
Permethrin	500
Tefluthrin	100
Tetrachlorvinphos	10

Regulations for drinking water and water used in food manufacturing, May 27, 1986, BGBl, I, S. 760.

Pesticide Mix #15

AE-00024 1 x 1 mL
AE-00024-10ML 1 x 10 mL
 0.02 µg/mL each in Ethyl acetate 33 comps.

Atrazine	Linuron
Bifenox	Pencycuron
Bromacil	Pendimethalin
Carbetamide	Prometryne
Chloridazo	Propazine
Chloroxuron	Metamitron
Chlorpropham	Metazachlor
Chlortoluron	Methabenzthiazuron
Crimidine	Methoprotryne
Cyanazine	Metobromuron
Desethylatrazine	Metolachlor
Desisopropylatrazine	Monolinuron
Desethylterbutylazine	Sebutylazine
Dimefuron	Simazine
Diuron	Terbutryn
Isoproturon	Terbutylazine
Karbutilate	

Regulations for drinking water analysis, (E-DIN 38407-F-18, E-DIN 38414-F-21)
 Regulations for sediment and sludge.

Pesticide Mix #16

AE-00030 1 x 1 mL
AE-00030-10ML 1 x 10 mL
 10 µg/mL each in Ethyl acetate 20 comps.

Aldicarb	Lindane
Atrazine	MCPA *
Bentazone *	Mecoprop *
Chlortofuron	Metazachlor
Cyanazine	Metobromuron
2,4-D *	Metoxuron
Dichlorprop *	Sebutylazin
1,3-Dichloropropene	Simazine
Endosulfan I	Terbutylazine
Endosulfan II	
Isoproturon	* Underivatized

Pesticide Mix #20

AE-00050 1 x 1 mL
AE-00050-10ML 1 x 10 mL
 10 µg/mL each in Ethyl acetate 20 comps.

Aldicarb	Isoproturon
Atrazine	γ-BHC
Bentazon	MCPA
Chlortoluron	MCPP acid
Cyanazine	Metazachlor
2,4-D	Metobromuron
Dichlorprop	Metoxuron
1,1-Dichloropropene	Sebutylazin
Endosulfan I	Simazine
Endosulfan II	Terbutylazine

Pesticide Mix #21

AE-00051 1 x 1 mL
 10 µg/mL each in Cyclohexane 16 comps.

Aldrin	Endrin
p,p'-DDD	Heptachlor
p,p'-DDE	Heptachlor epoxide (isomer B)
o,p'-DDT	Hexachlorobenzene
p,p'-DDT	α-BHC
Dieldrin	β-BHC
Endosulfan I	γ-BHC
Endosulfan II	Methoxychlor

Regulations - Test methods for organochlorine and organophosphorus compounds and pyrethroids
 Current Science and Technology, German Book of Medicine (1996).

Pesticide Mix #17

AE-00027 1 x 1 mL
AE-00027-10ML 1 x 10 mL
 10 µg/mL each in Toluene 14 comps.

Alachlor	Methyl pentachlorophenyl sulfide
Bromopropylate	Pentachloraniline
Carbophenothion	cis-Permethrin
Cypermethrin	trans-Permethrin
Deltamethrin	Piperonyl butoxide
Endosulfane sulfate	Pyrethrins
Fenvalerate	Quintozene

Pesticide Mix #18

AE-00028 1 x 1 mL
AE-00028-10ML 1 x 10 mL
 10 µg/mL each in Toluene 16 comps.

Azinphos-methyl	Ethyl parathion
Carbophenothion	Fenitrothion
Chlorfenvinphos	Fonofos
Chlorpyrifos-ethyl	Methyl parathion
Chlorpyrifos-methyl	Malathion
Diazinon	Methidathion
Dichlorphos	Phosalone
Ethion	Pirimiphos-methyl

Pesticide Mix #19

AE-00029 1 x 1 mL
AE-00029-10ML 1 x 10 mL
 10 µg/mL each in Toluene 13 comps.

Chlorpyrifos-methyl	Fenitrothion
p,p'-DDT	Lindane
Deltamethrin	Methyl parathion
Dichlorvos	Phosalone
Dieldrin	Quintozene
Endosulfan sulfate	Tecnacene
Ethion	

Pesticide Mix #20

Regulation DIN V 38407 Part 12 Method F12
AE-00031 1 x 1 mL
AE-00031-10ML 1 x 10 mL
 10 µg/mL each in Ethyl acetate 17 comps.

Atrazine	Methabenzthiazuron
Chlortoluron	Metobromuron
Cyanazine	Metolachlor
Desethyl atrazine	Metoxuron
Hexazinone	Monolinuron
Isoproturon	Sebutylazin
Karmex	Simazine
Linuron	Terbutylazine
Metazachlor	

Pesticide Mix #22

AE-00052 1 x 1 mL
AE-00052-10ML 1 x 10 mL
 10 µg/mL each in Acetonitrile 8 comps.

Atrazine	Metoxuron
Desethyl atrazine	Propazine
Bromacil	Simazine
Chloridazon	Terbutylazine



Regional Standards

European Methodologies

Pesticide Standards (Continued)

Pesticide Mix #23

AE-00053	1 x 1 mL
AE-00053-10ML	1 x 10 mL
10 µg/mL each in Acetonitrile 6 comps.	
2,4-D	MCPA
2,4-DB	MCPB
Dichlorprop	MCP acid

Pesticide Mix #24

AE-00054	1 x 1 mL		
AE-00054-10ML	1 x 10 mL		
At stated conc. (µg/mL) in Cyclohexane 6 comps.			
Aldrin	0.2	α-BHC	0.15
p,p'-DDT	0.4	γ-BHC	0.15
Dieldrin	0.3	Heptachlor	0.2

Pesticide Mix #25

AE-00055	1 x 1 mL
AE-00055-10ML	1 x 10 mL
10 µg/mL each in Cyclohexane 4 comps.	

α-BHC	γ-BHC
β-BHC	δ-BHC

Pesticide Mix #26

AE-00056	1 x 1 mL
AE-00056-10ML	1 x 10 mL
1.0 µg/mL each in Cyclohexane 5 comps.	

α-BHC	δ-BHC
β-BHC	ε-BHC
γ-BHC	

Pesticide Mix #27

AE-00057	1 x 1 mL
AE-00057-10ML	1 x 10 mL
1.0 µg/mL each in Isooctane 13 comps.	

α-BHC	p,p'-DDE
β-BHC	Dieldrin
γ-BHC	Endrin
δ-BHC	Heptachlor epoxide (isomer B)
o,p'-DDD	Methoxychlor
p,p'-DDD	Mirex
o,p'-DDE	

EN / DIN / ISO Pesticide Standards

ISO 6468 Pesticide Standard

Water quality determination of certain organochlorine insecticides, polychlorine biphenyls and chlorobenzenes by GC after liquid-liquid extraction.

ISO6468-PEST	1 x 1 mL
10 µg/mL each in n-Hexane 19 comps.	

α-BHC	Methoxychlor
β-BHC	Aldrin
γ-BHC	Dieldrin
δ-BHC	Endrin
o,p'-DDE	Heptachlor
p,p'-DDE	Heptachlor epoxide (Isomer A)
o,p'-DDD	Heptachlor epoxide (Isomer B)
p,p'-DDD	Endosulfan I
o,p'-DDT	Endosulfan II
p,p'-DDT	

EN ISO 10695 Pesticide Mix

Water quality determination of selected organic nitrogen and phosphorous compound by GC.

ENISO10695-PEST	1 x 1 mL
10 µg/mL each in Acetone 12 comps.	

Atrazine	Propazine
Cyanazine	Sebutylazin
Metazachlor	Simazine
Parathion	Terbutylazine
Methyl parathion	Trifluralin
Pendimethalin	Vinclozolin

DIN 38407-2 Pesticide Standard

Determination of water, waste water and sludge for low volatile halogenated hydrocarbons by GC.

DIN38407-2-PEST	1 x 1 mL
10 µg/mL each in n-Hexane 17 comps.	

Aldrin	Endrin
p,p'-DDD	Heptachlor
o,p'-DDE	Heptachlor epoxide (Isomer A)
p,p'-DDE	Heptachlor epoxide (Isomer B)
o,p'-DDT	α-BHC
p,p'-DDT	β-BHC
Dieldrin	γ-BHC
Endosulfan I	Methoxychlor
Endosulfan II	

EN ISO 11369 Pesticide Mix 20

Regulation DIN V 38407 Part 12 Method F12

AE-00031	1 x 1 mL
AE-00031-10ML	1 x 10 mL
10 µg/mL each in Ethyl acetate 17 comps.	

Atrazine	Methabenzthiazuron
Chlortoluron	Metobromuron
Cyanazine	Metolachlor
Desethyl atrazine	Metoxuron
Hexazinone	Monolinuron
Isoproturon	Sebutylazin
Karmex (Diuron)	Simazine
Linuron	Terbutylazine
Metazachlor	

DIN V 38407-11 Pesticide Mix

Scope: Determination of plant protection agents in water, wastewater and sludge.

DINV38407-11-PST	1 x 1 mL
DINV38407-11-PST-PAK	5 x 1 mL
5 µg/mL each in Acetonitrile 21 comps.	

Alachlor	Monuron
Atrazine	Parathion
Chlorfenvinphos	Pendimethalin
Chlortoluron	Propazine
Cyanazine	Sebutylazin
2,4-D	Simazine
MCPA acid	2,4,5-T
Metazachlor	Terbutylazine
Metobromuron	Trifluralin
Metolachlor	Vinclozolin
Metoxuron	

DIN 38407-14 Methyl Esters Mix

Examination of water, wastewater and sludge for phenoxyalkyl carbonic acids by GC and MS detection after solid-liquid extraction and derivatization.

DIN38407-14-ME	1 x 1 mL
500 µg/mL each in n-Hexane 8 comps.	

Mecoprop methyl ester
MCPA methyl ester
Dichlorprop methyl ester
2,4-D methyl ester
Fenoprop methyl ester
MCPB methyl ester
2,4,5-T methyl ester
2,4-DB methyl ester

DIN 38407-22 Glyphosate & AMPA

Examination of water, wastewater, and sludge for Glyphosate and Aminomethyl phosphonic acid (AMPA)

DIN38407-22	1 x 1 mL
100 µg/mL each in Water 2 comps.	

Glyphosate
Aminomethylphosphonic acid

Pesticide Mix 16

Regulations for drinking water analysis, (E-DIN 38407-F-18, E-DIN 38414-F-21) Regulations for sediment and sludge.

AE-00030	1 x 1 mL
10 µg/mL each in Ethyl acetate 20 comps.	

Aldicarb	MCPA *
Atrazine	Mecoprop *
Bentazone *	Metazachlor
Chlortoluron	Metobromuron
Cyanazine	Metoxuron
2,4-D *	Sebutylazine
Dichlorprop *	Simazine
1,3-Dichloropropene	Terbutylazine
Endosulfan I	
Endosulfan II	* Underivatized
Isoproturon	
Lindane	

DIN 38407-14 Acid Mix

Examination of water, wastewater and sludge for phenoxyalkyl carbonic acids by GC and MS detection after solid-liquid extraction and derivatization.

DIN38407-14-ACID	1 x 1 mL
500 µg/mL each in n-Hexane 8 comps.	

Mecoprop acid
MCPA acid
Dichlorprop acid
2,4-D acid
Fenoprop acid
MCPB acid
2,4,5-T acid
2,4-DB acid



Regional Standards

Korean Drinking Water Regulation

Pesticide Mix

KDWR-003

1 x 1 mL

KDWR-003-PAK

5 x 1 mL

1000 µg/mL each in MeOH

5 comps.

Carbaryl
Diazinon
Fenitrothion
Malathion
Parathion

Canadian Drinking Water Brownfield Regulation

Phenoxyacid Herbicides Mix

CCME-CDW-PHERB

1 x 1 mL

1000 µg/mL each in Acetone

11 comps.

Bromoxynil	Pentachlorophenol
2,4-D	Picloram
Dicamba	2,4,5-T
2,4-Dichlorophenol	2,3,4,6-Tetrachlorophenol
Diclofop methyl	2,4,6-Trichlorophenol
Dinoseb	

Carbamates Mix

CCME-CDW-CARB

1 x 1 mL

100 µg/mL each in AcCN

5 comps.

Aldicarb	Carbofuran
Bendiocarb	Triallate
Carbaryl	

Chlorinated Pesticide Mix

CCME-CDW-CPEST

1 x 1 mL

200 µg/mL each in Hexane:Toluene (50:50)

14 comps.

Aldrin	4,4'-DDT
g-BHC	Dieldrin
a-Chlordane	Heptachlor
g-Chlordane	Heptachlor epoxide (Isomer B)
2,4'-DDE	Methoxychlor
4,4'-DDE	Oxychlordane Isomer
2,4'-DDT	Trifluralin

CAS Number Index

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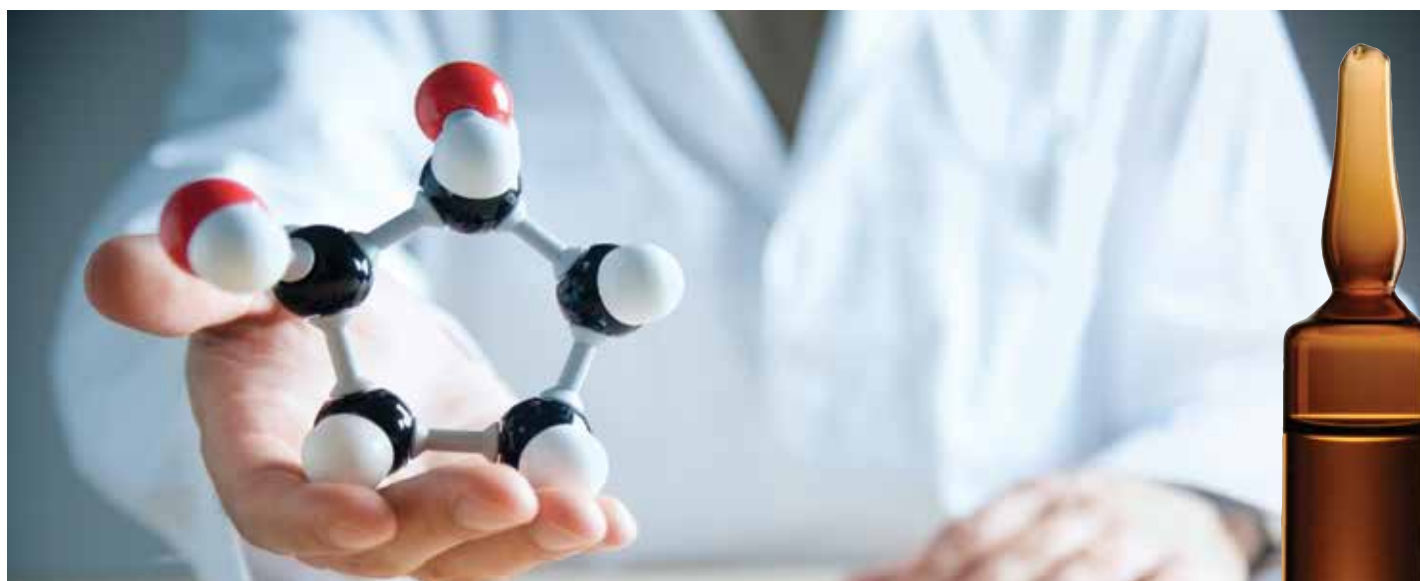
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