

# Pesticide Standards Reference Guide



Sample Pages of  
New Catalog from AccuStandard



AccuStandard®

# Over 6,000 Standards from Abamectin to Ziram

## Welcome to AccuStandard's Pesticide Desk Reference Guide

This guide includes for each individual Pesticide the following:

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

Included for most:

- Solvents
- Specific gravity
- Melting or boiling point
- Flash point

Common synonyms are cross referenced to the most popular name for each compound. A CAS number index is included for easy reference.

700 pesticides are available as single component solutions and neat. Also Standards for over 50 EPA and International Methods.



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Contact us for Synthesis of rare Pesticides and Metabolites



Master Catalog

AccuStandard is recognized for the widest range of Reference Standards.

#### Organics

- QC Standards
- PCBs
- PBDEs
- Dioxins
- PAHs
- Pesticides
- VOCs
- Phthalates
- Explosives
- Fuels & Hydrocarbons
- Plastic Additives
- Allergens
- Dyes
- EPA Methods
- Petrochemicals  
(including 100 ASTM methods)
- Custom Formulations and much more.

#### Inorganics

- ICP
- ICP/MS
- AA
- Ion Chrom
- EPA Methods

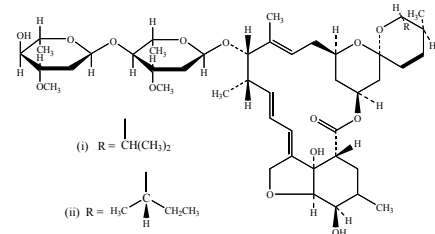
Visit our website to search for new and additional pesticide formulations or contact our Technical Service Department



# Individual Pesticides

**AAtrex** see **Atrazine**

## Abamectin



**CAS** 71751-41-2 **MF** C<sub>48</sub>H<sub>72</sub>O<sub>14</sub> / C<sub>47</sub>H<sub>70</sub>O<sub>14</sub>  
**MW** 873.09 / 859.06 **PS** S **SOL** T, A, IPA  
**SG** 1.18 **MP** 165 °C **FP** >150 °C

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

**Abaphos** see **Abate**

**Abar** see **Leptophos**

## Abate

O,O,O'-Tetramethyl O,O'-thiodi-p-phenylene phosphorothioate



**CAS** 3383-96-8 **MF** C<sub>16</sub>H<sub>20</sub>O<sub>6</sub>P<sub>2</sub>S<sub>3</sub>  
**MW** 466.47 **PS** S **SOL** H **SG** 1.32 **MP** 30 °C  
**BP** 120 °C

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

**Abathion** see **Abate**

**Acalarlate** see **Chloropropylate**

**Acarben** see **Chlorobenzilate**

**Acclaim** see **Fenoxadrop-ethyl**

### Property Key

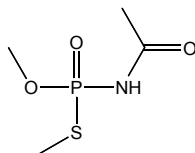
**CAS** Chemical Abstract Service  
**MF** Molecular Formula  
**MW** Molecular Weight  
**PS** Physical State (Solid, Liquid)  
**SOL** Solubility (see Key)  
**SG** Specific Gravity (g/cm<sup>3</sup>)  
**MP** Melting Point (°C)  
**BP** Boiling Point (°C)  
**FP** Flash Point (°C)

### Solvent Key (SOL)

**A** Acetone  
**CN** Acetonitrile  
**D** Methylene Chloride  
**DMSO** Dimethyl Sulfoxide  
**EA** Ethyl acetate, EtOAc  
**H** Hexane  
**IPA** Isopropanol  
**IS** Insoluble  
**MeOH** Methanol  
**T** Toluene  
**TP** Isooctane  
**W** Water

## Acephate

O,S-Dimethyl acetylphosphoramidothioate

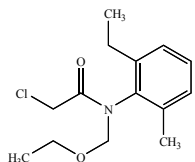


**CAS** 30560-19-1 **MF** C<sub>4</sub>H<sub>10</sub>NO<sub>3</sub>PS  
**MW** 183.17 **PS** S **SOL** A, EA, H **SG** 1.35  
**MP** 88 °C

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

## Acetochlor

2-dthyl-6-methyl-N-cethoxymethyl-2-chloroacetyl-lanilide

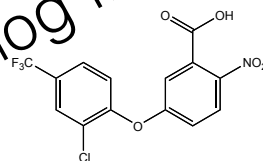


**CAS** 34256-82-1 **MF** C<sub>14</sub>H<sub>20</sub>ClNO<sub>2</sub>  
**MW** 269.77 **PS** L **SOL** MeOH, A, EA  
**SG** 1.12 **MP** 11 °C **BP** 172 °C

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

## Acifluorfen

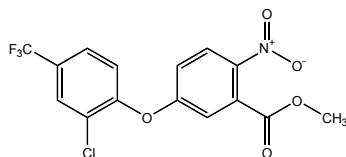
2-chloro-4-(trifluoromethyl)-phenoxy-2-nitrobenzoic acid



**CAS** 50594-66-6 **MF** C<sub>14</sub>H<sub>6</sub>ClF<sub>3</sub>NO<sub>5</sub>-Na  
**MW** 383.65 **PS** S **SOL** A, H **MP** 124-125 °C

Matrix	Cat. No.	Unit
Neat	P-245N	10 mg
100 µg/mL in MeOH	P-245S	1mL

## Acifluorfen methyl ester



**CAS** 50594-67-7 **MF** C<sub>15</sub>H<sub>6</sub>ClF<sub>3</sub>NO<sub>5</sub>  
**MW** 375.69 **PS** S

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

**Actellic** see **Pirimphos methyl ester**

**Acti-Aid** see **Cycloheximide**

**Actosin C** see **Chlorophacinone**

**Admire** see **Imidacloprid**

**Afalon** see **Linuron**

**Affirm** see **Avid**

**Afugan** see **Pyrazophos**

**Agritox** see **Trichloronate**

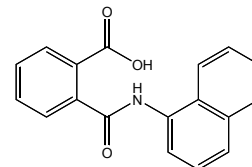
**Agroxone** see **MCPA acid**

**Aimsan** see **Phenmedipham**

**Akar** see **Chlorobenzilate**

## Alanap

Sodium 2-[(1-naphthalenylamino)carbonyl]benzoate

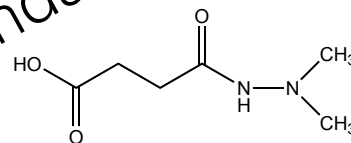


**CAS** 132-66-1 **MF** C<sub>18</sub>H<sub>13</sub>NO<sub>3</sub> **MW** 291.32  
**PS** S **SOL** DMSO, A **SG** 1.4 **MP** 203 °C

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

## Alar (SADH)

S-ethylhexahydro-1H-azepine-1-carbothioate

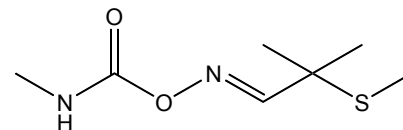


**CAS** 1596-84-5 **MF** C<sub>6</sub>H<sub>12</sub>N<sub>2</sub>O<sub>3</sub> **MW** 160.2  
**PS** S **SOL** MeOH, CN **MP** 156 °C

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

## Aldicarb

UC21149



**CAS** 116-06-3 **MF** C<sub>7</sub>H<sub>14</sub>N<sub>2</sub>O<sub>2</sub>S  
**MW** 190.29 **PS** Sv **SOL** A, D **SG** 1.195  
**MP** 99 °C **FP** >100 °C

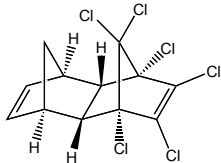
Matrix	Cat. No.	Unit
Neat	P-001N	10 mg
100 µg/mL in MeOH	P-001S	1mL

**Aldoxycarb** see **Aldicarb sulfone**



## Aldrin

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



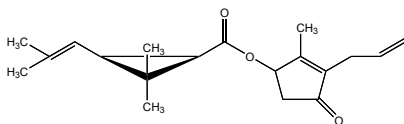
CAS 309-00-2 MF C<sub>12</sub>H<sub>8</sub>Cl<sub>6</sub> MW 364.9  
PS S SG 1.6 MP 97 °C

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

Alfa-tox see Diazinon

## Allethrin

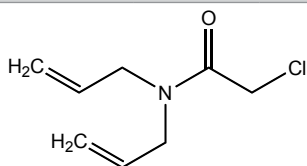
(RS)-3-allyl-2-methyl-4-oxocyclopent-2-enyl(1RS,3RS;1RS,3SR)-2,2-dimethyl-3-(2-methylprop-1-enyl)cyclopropanecarboxylate



CAS 584-79-2 MF C<sub>19</sub>H<sub>26</sub>O<sub>3</sub> MW 302.45  
PS L SOL MeOH, H SG 1.0005 BP 160 °C

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

## Allidochlor



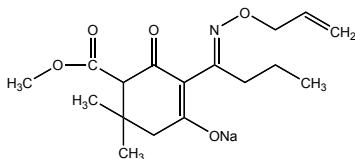
CAS 93-71-0 MF C<sub>8</sub>H<sub>12</sub>ClNO MW 171.66  
PS L SG 1.088 @ 25 MP 145 °C BP 12 °C

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

Allisan see Botran

Altosid see Methoprene

## Alloxydim-sodium



CAS 55635-13-7 MF C<sub>17</sub>H<sub>24</sub>NO<sub>5</sub>.NA  
MW 345.41 PS S SOL MeOH

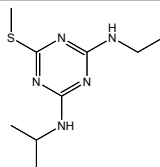
Matrix	Cat. No.	Unit
Neat	P-510N	10 mg
100 µg/mL in MeOH	P-510S	1 mL

Amaze see Isofenphos

Ambush see Permethrine

Amdro see Hydramethylnon

## Ametryn

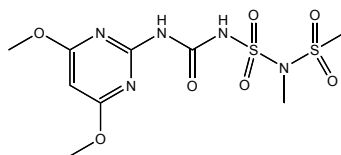


CAS 834-12-8 MF C<sub>9</sub>H<sub>17</sub>N<sub>5</sub>S MW 227.33  
PS S SOL A, MeOH, T SG 1.18 MP 86 °C  
BP 337 °C

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

## Amidosulfuron

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



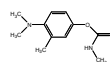
CAS 120923-37-7 PS S SOL A, IPA, MeOH  
SG 1.5 MP 160 - 163 °C

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

Amigol see Amitrole

## Aminocarb

4-dimethylamino-N-tolyl-methylcarbamate

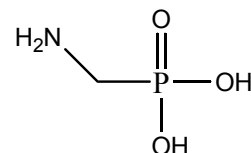


CAS 2032-59-9 MF C<sub>11</sub>H<sub>16</sub>N<sub>2</sub>O<sub>2</sub> MW 208.29  
PS S MP 93-94 °C

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

## Aminomethyl phosphonic acid

Phosphaglycine; (Aminomethyl)phosphonate

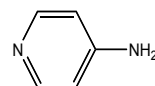


CAS 1066-51-9 MF CH<sub>6</sub>NO<sub>3</sub>P MW 111.04

Matrix	Cat. No.	Unit
Neat	P-625N	10 mg
100 µg/mL in Water	P-625S	1 mL

## 4-Aminopyridine

p-Aminopyridine



CAS 504-24-5 MF C<sub>5</sub>H<sub>6</sub>N<sub>2</sub> MW 94.12  
PS S MP 160-162 °C

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

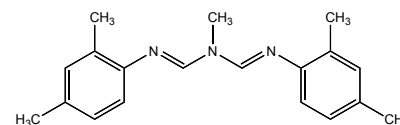
Aminoflazole see Amitrole

Amirazole see Alar

Amiral see Triadimefon

## Amitraz

N,N'-(methyliminodimethylidene)bis-2,4-xylylidene

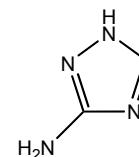


CAS 33089-61-1 MF C<sub>19</sub>H<sub>23</sub>N<sub>3</sub> MW 293.45  
PS S SOL T, A MP 86 °C

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

## Amitrole (ATA)

1 H-1,2,4-triazol-3-amine



CAS 61-82-5 MF C<sub>2</sub>H<sub>4</sub>N<sub>4</sub> MW 384.1  
PS S SOL MeOH, EA, D MP 154-159 °C

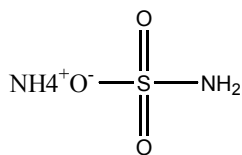
Matrix	Cat. No.	Unit
Neat	P-103N	10 mg
100 µg/mL in MeOH	P-103S	1 mL



# Individual Pesticides

Amizine see Simazine  
Amizol see Amitrole

## Ammonium sulfamate



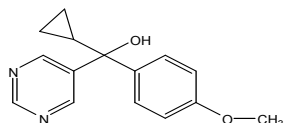
CAS 7773-06-0 MF H<sub>6</sub>N<sub>2</sub>O<sub>3</sub>S MW 114.1  
PS S SOL W MP 132 °C BP 200 °C

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

AMS see Ammonium sulfamate

## Ancymidol

a-Cyclopropyl-a-[4-methoxyphenyl]-5-pyrimidine-methanol



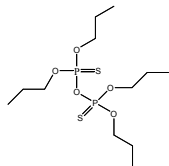
CAS 12771-68-5 MF C<sub>15</sub>H<sub>16</sub>N<sub>2</sub>O<sub>2</sub> MW 256.3  
PS S SOL MeOH, A, H MP 110 °C

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

Antiphen see Dichlorophen  
Api-Luster see Thiabendazole  
Aprocarb see Baygon  
Aracide see Aramite  
Aracnol F see Cyhexatin  
A-Rest see Ancymidol  
Arisan see Buturon  
Arresin see Monolinuron

## Aspon

O,O,O,O-Tetrapropylidithiopyrophosphate



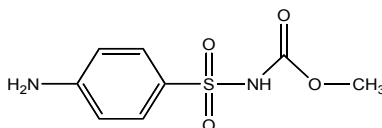
CAS 3244-90-4 MF C<sub>12</sub>H<sub>28</sub>O<sub>5</sub>P<sub>2</sub>S<sub>2</sub>  
MW 378.46 PS L SG 1.119 BP 375 °C

Matrix	Cat. No.	Unit
Neat	P-309N	10 mg
100 µg/mL in MeOH	P-309S	1mL

Assure see Quizalofop ethyl

## Asulam

Methyl sulfanilyl carbamate



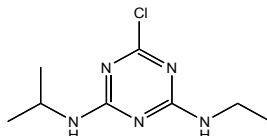
CAS 3337-71-1 MF C<sub>8</sub>H<sub>10</sub>N<sub>2</sub>O<sub>3</sub>S  
MW 230.26 PS S SOL A, MeOH MP 144 °C

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

ATA see Amitrole  
Athrombine-K see Warfarin  
Atritol see Atrazine  
Atraton see Gesatamin

## Atrazine

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

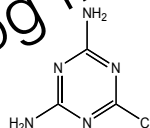


CAS 1912-24-9 MF C<sub>8</sub>H<sub>14</sub>ClN<sub>5</sub> MW 215.68  
PS S SOL A, D, EA SG 1.23 MP 176 °C  
BP 205 °C

Matrix	Cat. No.	Unit
Neat	P-005N	10 mg
100 µg/mL in MeOH	P-005S	1mL

## Atrazine-desethyl-desisopropyl

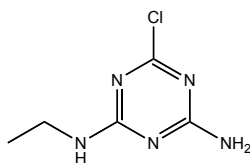
2,4-Diamino-6-chloro-1,3,5-triazine



CAS 3397-62-4 MF C<sub>3</sub>H<sub>4</sub>ClN<sub>5</sub> MW 145.55  
PS S BP >320 °C

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

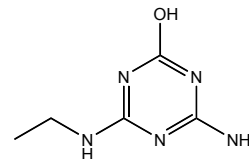
## Atrazine-desisopropyl



CAS 1007-28-9 MF C<sub>5</sub>H<sub>8</sub>N<sub>5</sub>Cl MW 173  
PS S

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

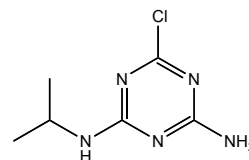
## Atrazine-desisopropyl-2-hydroxy



CAS 7313-54-4 MF C<sub>5</sub>H<sub>9</sub>N<sub>5</sub>O MW 155.16  
PS L BP 310 °C

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

## Atrazine Desethyl

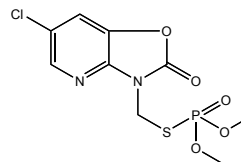


CAS 6190-65-4 MF C<sub>6</sub>H<sub>10</sub>ClN<sub>5</sub> MW 187.63  
PS S SOL DMSO, EA, MeOH MP 130 to 133 °C

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

Avadex see Diallylate  
Avia see Abamectin

## Azamethiphos

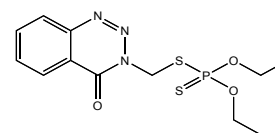


CAS 35575-96-3 MF C<sub>9</sub>H<sub>10</sub>ClN<sub>2</sub>O<sub>5</sub>PS  
MW 324.68 PS S SOL D, MeOH SG 1.6  
MP 89 °C FP >150 °C

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

## Azinphos-ethyl

Triazotion



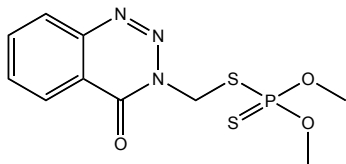
CAS 2642-71-9 MF C<sub>12</sub>H<sub>16</sub>N<sub>3</sub>O<sub>3</sub>PS<sub>2</sub>  
MW 345.38 PS S SOL D, T, IPA SG 1.284  
MP 70.0 - 72.0 °C

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



## Azinphos-methyl

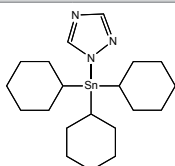
O,O-dimethyl S-(1,2,3-benzotriazinyl-4-keto)methyl phosphorodithioate



CAS 86-50-0 MF C<sub>10</sub>H<sub>12</sub>N<sub>3</sub>O<sub>3</sub>P<sub>2</sub>  
MW 317.33 PS S SOL D, CN, A SG 1.518  
MP 73 °C BP 200 °C

Matrix	Cat. No.	Unit
Neat	P-007N	10 mg
100 µg/mL in MeOH	P-007S	1mL

## Azocyclotin

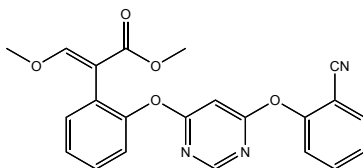


CAS 41083-11-8 MF C<sub>20</sub>H<sub>35</sub>N<sub>3</sub>Sn  
MW 436.27 PS S SOL IPA, D, T

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

## Azoxystrobin

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



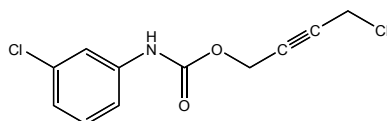
CAS 131860-33-8 MF C<sub>22</sub>H<sub>17</sub>N<sub>3</sub>O<sub>5</sub>  
MW 403.39 PS S SOL D, CN, EA  
SG 1.33 MP 118 - 119 °C

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

Banvel see Dicamba

## Barbamate

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



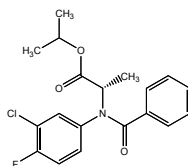
CAS 101-27-9 MF C<sub>11</sub>H<sub>9</sub>Cl<sub>2</sub>NO<sub>2</sub>  
MW 258.11 PS S SOL MP 75-76 °C

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

Barban see Barbamate

Barben see Barbamate

## Barnon



CAS 52756-22-6 MF C<sub>19</sub>H<sub>19</sub>ClFNO<sub>3</sub>  
MW 363.84 PS S

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

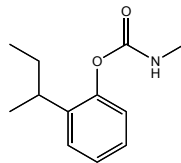
Basagran see Bentazon

Basalin see Fluchloralin

Basudin see Diazinon

Bathroid see Cyfluthrin

## Baycarb



CAS 3766-81-2 MF C<sub>12</sub>H<sub>17</sub>NO<sub>2</sub> MW 207.3  
PS S MP 32 °C BP 330 °C

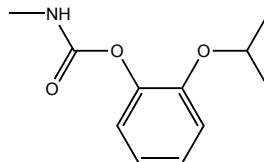
Matrix	Cat. No.	Unit
Neat	P-347N	10 mg
100 µg/mL in MeOH	P-347S	1mL

Baydor See Bitertanol

Bayvidan see Triadimenol

## Baygon

2-Isopropoxyphenyl methylcarbamate



CAS 114-26-1 MF C<sub>11</sub>H<sub>15</sub>NO<sub>3</sub> MW 209.24  
PS S SG 1.17 MP 90 °C BP Decomposes

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

Bayleton see Triadimefon

Bayluscid see Niclosamide

Baytan see Triadimenol

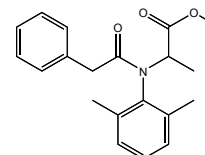
Baytex see Fenthion

Baythion see Phoxim

Beam see Tricyclazole

## Benalaxyl

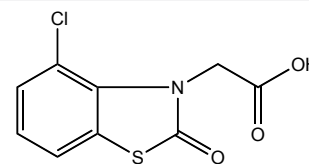
Methyl N-phenylacetyl-N-2,6-xylyl-DL-alaninate



CAS 71626-11-4 MF C<sub>20</sub>H<sub>23</sub>NO<sub>3</sub> MW 325.4  
PS S SOL MeOH, A, EA SG 1.18 MP 79 °C

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

## Benazolin



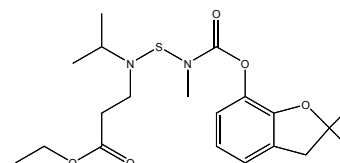
CAS 71626-11-4 MF C<sub>9</sub>H<sub>6</sub>ClNO<sub>3</sub>S  
MW 243.67 PS S SOL A, IPA, EA MP 193 °C  
FP >100 °C

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

Benfenin see Benfluralin

Benelux see Thiofanox

## Benfuracarb



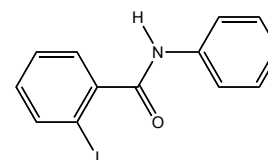
CAS 82560-54-1 MF C<sub>20</sub>H<sub>30</sub>N<sub>2</sub>O<sub>5</sub>S MW  
410.5 PS L SOL H, D, A

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

Benlate see Benomyl

## Benodanil

2-Iodobenzoic acid anilide



CAS 15310-01-7 MF C<sub>13</sub>H<sub>10</sub>INO MW 323.13  
PS S SOL A, EA MP 137 °C

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

# EPA Pesticide Methods

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New Catalog from AccuStandard  
Sample Pages of



# EPA Pesticide and Herbicide Standards

## Pesticide Kits and Mixtures

### Neat Pesticide Kit \*

<b>Z-004-SET</b>	set of 20 x 10 mg	
Aldrin (01)	Dieldrin (11)	
α-BHC (02)	Heptachlor (12)	
β-BHC (03)	Heptachlor epoxide (13)	
δ-BHC (04)	Lindane (γ-BHC) (14)	
o,p'-DDD (05)	Malathion (15)	
p,p'-DDD (06)	Methoxychlor (16)	
o,p'-DDE (07)	Mirex (17)	
p,p'-DDE (08)	Parathion (18)	
o,p'-DDT (09)	Carbaryl (19)	
p,p'-DDT (10)	Toxaphene (20)	

### Pesticide (Solid Waste) Kit \*

<b>Z-017-SET</b>	set of 6 x 10 mg	
2,4-Dichlorophenoxyacetic acid (2,4-D acid)	Silvex	
Endrin	Toxaphene	
Lindane		
Methoxychlor		

### Pesticide Mixture for Evaluating GC Columns

<b>M-100</b>	1 x 1 mL	
At stated conc. in Isooctane	13 comps.	
Aldrin (0.050 µg/mL)	p,p'-DDT (0.260 µg/mL)	
α-BHC (0.025 µg/mL)	Dieldrin (0.120 µg/mL)	
β-BHC (0.100 µg/mL)	Endrin (0.200 µg/mL)	
o,p'-DDD (0.200 µg/mL)	Heptachlor (0.025 µg/mL)	
p,p'-DDD (0.190 µg/mL)	Heptachlor epoxide (0.080 µg/mL)	
p,p'-DDE (0.100 µg/mL)	Lindane (γ-BHC) (0.025 µg/mL)	
o,p'-DDT (0.225 µg/mL)		

### Pesticides in Solutions (Individual and Kits)

Compound (in Isooctane)	Conc.	Cat. No.
Aldrin	200 ng/µL	P-002S-1
	2 ng/µL	P-002S-2
Chlordane, tech	200 ng/µL	P-017S-1
	2 ng/µL	P-017S-2
2,4-D methyl ester	200 ng/µL	P-021S-1
p,p'-DDE	200 ng/µL	P-027S-1
	2 ng/µL	P-027S-2
p,p'-DDT	200 ng/µL	P-029S-1
	2 ng/µL	P-029S-2
Dieldrin	200 ng/µL	P-037S-1
	2 ng/µL	P-037S-2
Endrin	200 ng/µL	P-045S-1
	2 ng/µL	P-045S-2
Heptachlor	200 ng/µL	P-053S-1
	2 ng/µL	P-053S-2
Lindane	200 ng/µL	P-059S-1
	2 ng/µL	P-059S-2
Methoxychlor	200 ng/µL	P-064S-1
	2 ng/µL	P-064S-2
Silvex methyl ester	200 ng/µL	P-115S-1
Toxaphene	200 ng/µL	P-093S-1

Set of above 21 pesticides (21 x 1 mL) **Z-021-SET**  
At stated concentrations

#### Technical Note

Designed for evaluating the ability of a column to separate pesticides and their degradation products.

#### 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 \*

<b>Z-031-SET</b>	set of 15 x 1 mL	
0.1 mg/mL in MeOH	Individual Standards	
Atrazine (01)	Prometryn (09)	
Dicamba (02)	Prometon (10)	
Benfluralin (03)	Propanil (11)	
Bentazon (04) *	Propazine (12)	
Dacthal (05)	Simazine (13)	
Dichlobenil (06)	Tebuthiuron (14)	
Diuron (07)	Trifluralin (15)	
Metolachlor (08)		

\* in Acetone

### Herbicide Mix #1

<b>M-HERB-1</b>	1 x 1 mL	
0.1 mg/mL each in EtOAc	13 comps.	
Atrazine	Oxyfluorfen	
Bromacil	Sencor	
Cycloate	Sutan	
Eptam	Terbacil	
Isopropalin	Tillam	
Hexazinone	Trifluralin	
Molinate		

### Herbicide Mix #2

<b>M-HERB-2</b>	1 x 1 mL	
0.1 mg/mL each in EtOAc	9 comps.	
Benfluralin	Prowl	
Metolachlor	Simazine	
Oxadiazon	Tolban	
Propachlor	Vernam	
Propazine		

## Phenylurea Pesticide Mixtures

### Phenylurea Pesticide Mixture

<b>PES-PU-001</b>	1 x 1 mL	
<b>PES-PU-001-PAK SAVE</b>	5 x 1 mL	
200 µg/mL each in AcCN:Acetone	8 comps.	

Diflubenuron	Propanil
Diuron	Siduron
Fluometuron	Tebuthiuron
Linuron	Thidiazuron

### Phenylurea Surrogate Mixture

<b>PES-PU-SS</b>	1 x 1 mL	
<b>PES-PU-SS-PAK SAVE</b>	5 x 1 mL	
500 µg/mL each in MeOH:AcCN	2 comps.	

Carbazole	Monuron
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\* These mixtures are designed for EPA Method Analysis used for the Priority Pollution Problem

# Contract Laboratory Program (CLP) & 500 Series Pesticide Standards



## 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.

SAVE

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)
Dibutylchloredate (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.

SAVE

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)	Dibutylchloredate (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.

SAVE

Decachlorobiphenyl	Tetrachloro- <i>m</i> -xylene
--------------------	-------------------------------

**CLP-034** 1 x 1 mL  
**CLP-034-PAK** 5 x 1 mL  
 200 µg/mL each in Acetone 2 comps.

SAVE

Dibutylchloredate	Tetrachloro- <i>m</i> -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

SAVE

Dibutylchloredate
-------------------

For CLP Calibration Mixtures  
 (Statement of Work 2/88 to 8/94)

See pages 153-154 of our Master Catalog

## 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.

SAVE

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)

## Chlordane & Toxaphene

Each at 1,000 µg/mL in Hexane

**AccuPAK™ (5 x 1 mL)**  
 SAVE

Pesticides	P-017S-H-10X	P-017S-H-10X-PAK
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 and Method 525.2 Nitrogen Phosphorus Pesticides (Mix A - Mix F on page 22) for complete listing

**M-507G** 1 x 1 mL  
**M-507G-PAK** 5 x 1 mL  
 1.0 mg/mL each in MtBE 8 comps.

SAVE

Beufen	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.

SAVE

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

SAVE

Triphenyl phosphate

## 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 NEW** 1 x 1 mL  
 1.0 mg/mL in MtBE

SAVE

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

SAVE

DEF (for Merphos quantitation)



# EPA Method 500 Series

## Pesticide Standards for Drinking Water

### Method 508 Chlorinated Pesticides by GC/ECD

#### Chlorinated Pesticides Mix A

<b>M-508P-A</b>		1 x 1 mL
<b>M-508P-A-PAK</b>	SAVE	5 x 1 mL
1.0 mg/mL each in MtBE		
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	

#### Chlorinated Pesticides Mix B

<b>M-508P-B-R</b>		1 x 1 mL
<b>M-508P-B-R-PAK</b>	SAVE	5 x 1 mL
1.0 mg/mL each in MtBE		
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 permethrin ratio

#### 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 cool, on-column injection.

#### Internal Standard

<b>M-508-IS</b>		1 x 1 mL
<b>M-508-IS-PAK</b>	SAVE	5 x 1 mL
0.1 mg/mL in MtBE		
<b>M-508-IS-10X NEW</b>		1 x 1 mL
1.0 mg/mL in MtBE		
Pentachloronitrobenzene		

<b>M-508P-B-R2</b>		1 x 1 mL
<b>M-508P-B-R2-PAK</b>	SAVE	5 x 1 mL
1.0 mg/mL each in MtBE		
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 permethrin ratio

#### Surrogate Standards

<b>M-508-SS</b>		1 x 1 mL
<b>M-508-SS-PAK</b>	SAVE	5 x 1 mL
0.5 mg/mL in MtBE		
4,4'-Dichlorobiphenyl		
<b>M-508-SS-2</b>		1 x 1 mL
<b>M-508-SS-2-PAK</b>	SAVE	5 x 1 mL
0.5 mg/mL in MtBE		
Decachlorobiphenyl		

#### Decomposition Solution

<b>M-508-DS-100X</b>		1 x 1 mL
<b>M-508-DS-100X-PAK</b>	SAVE	5 x 1 mL
At stated conc. in MtBE		
p,p'-DDT (200 ng/mL)	Endrin (10 ng/mL)	

#### Performance Check Solution

<b>M-508-QC</b>		1 x 1 mL
<b>M-508-QC-PAK</b>	SAVE	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

<b>M-508.1-X1</b>		1 x 1 mL
<b>M-508.1-X1-PAK</b>	SAVE	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		

#### Decomposition Solution

<b>M-508.1-DS-100X</b>		1 x 1 mL
<b>M-508.1-DS-100X-PAK</b>	SAVE	5 x 1 mL
100 µg/mL each in Ethyl acetate		
4,4'-DDT	Endrin	

#### Internal Standard Solution

<b>M-508.1-IS</b>		1 x 1 mL
<b>M-508.1-IS-PAK</b>	SAVE	5 x 1 mL
100 µg/mL each in Ethyl acetate		
Pentachloronitrobenzene		

#### Chlorinated Pesticide Mix #2

<b>M-508.1-X2</b>		1 x 1 mL
<b>M-508.1-X2-PAK</b>	SAVE	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		

#### Surrogate Standard Solution

<b>M-508.1-SS</b>		1 x 1 mL
<b>M-508.1-SS-PAK</b>	SAVE	5 x 1 mL
100 µg/mL each in Ethyl acetate		
4,4'-Dibromobiphenyl		

#### Performance Check Solution

<b>M-508.1-QC</b>		1 x 1 mL
<b>M-508.1-QC-PAK</b>	SAVE	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)	

\* Certificate will reflect actual cis/trans permethrin ratio