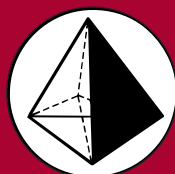


# Chemical Reference Standards



## ***New Product Bulletin***

- ***Newest EPA Methods***
- ***More PBDEs***
- ***PCB Metabolites***
- ***ITX***
- ***Dyes***
- ***PFOAs***
- ***Odor Standards***
- ***BioDiesel***



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The following new Chemical Reference Standards are just some of the new standards introduced since the printing of the International catalog. In all, there are now over 37,000 Chemical Reference Standards offered by AccuStandard. If there are standards that you need but do not see, please call your local Distributor as shown on [www.accustandard.com/asi/distributors.php3](http://www.accustandard.com/asi/distributors.php3), or contact us via the web site and we will have the right person contact you.

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# EPA Method 521 & 527

## Method 521

### Nitrosamines by SPE & Capillary Column GC

#### Analyte Stock Solution

<b>M-521</b> 200 µg/mL each in CH <sub>2</sub> Cl <sub>2</sub>	1 x 1 mL 7 comps.
N-Nitrosodimethylamine	N-Nitrosodi-n-butylamine
N-Nitrosomethylethylamine	N-Nitrosopyrrolidine
N-Nitrosodiethylamine	N-Nitrosopiperidine
N-Nitrosodi-n-propylamine	

#### Internal Standard Stock Solution

<b>M-521-IS</b> <b>M-521-IS-PAK</b> 1.0 mg/mL in CH <sub>2</sub> Cl <sub>2</sub>	<b>SAVE 20%</b>	1 x 1 mL 5 x 1 mL
N-Nitrosodi-n-propylamine-d <sub>14</sub>		

#### Surrogate Standard Stock Solution

<b>M-521-SS</b> <b>M-521-SS-PAK</b> 1.0 mg/mL in CH <sub>2</sub> Cl <sub>2</sub>	<b>SAVE 20%</b>	1 x 1 mL 5 x 1 mL
N-Nitrosodimethylamine-d <sub>6</sub>		

## Method 527

### Pesticides & Flame Retardants in Drinking Water by SPE & Capillary GC/MS

EPA Method 527 refers to catalog number. S-10617A-R1, S-10617B-R1 and S-10617C-R1. These are the same as catalog number M-527-PEST-A, M-527-PEST-B and M-527-BDE, which is 1/5 the concentration of S-10617C-R1.

#### Pesticide Standard A

<b>M-527-PEST-A</b> (same as <b>S-10617A-R1</b> ) 500 µg/mL each in MeOH	1 x 1 mL 11 comps.
Atrazine	Kepone
Bioallethrin, S-cyclopentyl isomer	Norflurazon
Bromacil	Oxychlorodane isomer
Esfenvalerate	Prometryne
Fenvalerate	Propazine
Hexazinone	

#### Pesticide Standard B

<b>M-527-PEST-B</b> (same as <b>S-10617B-R1</b> ) 500 µg/mL each in MeOH	1 x 1 mL 12 comps.
Bifenthrin	Nitrofen
Dimethoate	Parathion
Dursban	Terbufos sulfone
Fenamiphos	Thiazopyr
Malathion	Thiobencarb
Mirex	Vinclozolin

#### Internal Standard

<b>M-525.2-IS</b> 0.5 mg/mL each in Acetone	1 x 1 mL 3 comps.
Acenaphthene-d <sub>10</sub>	Phenanthrene-d <sub>10</sub>
Chrysene-d <sub>12</sub>	

#### Surrogate Standard

<b>M-525.2-SS</b> 0.5 mg/mL each in Acetone	1 x 1 mL 3 comps.
1,3-Dimethyl-2-nitrobenzene	Triphenylphosphate
Perylene-d <sub>12</sub>	

#### PBDE Standard

<b>M-527-BDE</b> (same as <b>S-10617C-R1</b> at 1/5 conc.) 50 µg/mL each in Isooctane:Ethyl Acetate (8:2)	1 x 1 mL 5 comps.
2,2',4,4'-Tetrabromodiphenyl ether	2,2',4,4',5,5'-Hexabromodiphenyl ether
2,2',4,4',6-Pentabromodiphenyl ether	2,2',4,4',5,5'-Hexabromobiphenyl
2,2',4,4',5-Pentabromodiphenyl ether	

### Agilent System for LC/MS/MS (Quadrupole and Ion Trap) Enhances AccuStandard QC Analytical Capabilities

An Agilent 1200 Series LC/MSD Trap has been added to AccuStandard's extensive analytical capabilities for certifying Chemical Reference Standards. LC/MSD Trap analyzers are particularly useful for characterizing and measuring thermally labile compounds including organophosphorus pesticides and their metabolites. The LC/MSD Traps offers outstanding combinations of scan speed, mass resolution, mass range, and sensitivity. With the addition of the Agilent LC/MSD Trap, to the GC, GC/MS, HPLC, ICP, and Low Sulfur Analyzer instrumentation, AccuStandard continues to expand its analytical capability.

Moreover, the LC/MSD Trap's unique SmartFrag collision-energy ramping ensures that every precursor ion receives exactly the energy it needs for optimum fragmentation. The result is greater product ion generation and more structural information from fewer stages of MS.

### Practical Application LC/MS Spectra available for over 500 Pesticide Reference Standards

LC/MS is rapidly becoming the analytical technique of choice for pesticide analysis. Despite this there is little data available for the analyst to uniquely identify the individual mass spectrum for these compounds. In order to provide this important information to our customers, AccuStandard has worked with Agilent and LCMS Limited to be the first Certified Reference Standard Manufacturer to offer this information.

#### Technical Details:

- Pesticides were provided by AccuStandard.
- Analysis was performed by LCMS Ltd. on an Agilent 1200 Series LC/MS.
- Data was obtained in cooperation with Agilent.
- To view the complete list of available spectra see [www.AccuStandard.com](http://www.AccuStandard.com) or call our technical service department for details.



More new Flame Retardant/PBDE Standards on page 3

# EPA Method 529, 1613 & Gun Surveillance

## Method 529

### Explosive & Related Compounds by SPE & Capillary Column GC/MS

#### Method 529 Calibration Curve

All in Ethyl acetate

Storage Cond.: Freeze (<-10°C)

M-529-	01	02	03	04	05	06	07	08	09
2-Amino-4,6-dinitrotoluene	0.025	0.05	0.10	0.25	0.50	1.0	2.0	5.0	10
4-Amino-2,6-dinitrotoluene	0.025	0.05	0.10	0.25	0.50	1.0	2.0	5.0	10
3,5-Dinitroaniline	0.025	0.05	0.10	0.25	0.50	1.0	2.0	5.0	10
1,3-Dinitrobenzene	0.025	0.05	0.10	0.25	0.50	1.0	2.0	5.0	10
2,4-Dinitrotoluene	0.025	0.05	0.10	0.25	0.50	1.0	2.0	5.0	10
2,6-Dinitrotoluene	0.025	0.05	0.10	0.25	0.50	1.0	2.0	5.0	10
RDX	0.025	0.05	0.10	0.25	0.50	1.0	2.0	5.0	10
Nitrobenzene	0.025	0.05	0.10	0.25	0.50	1.0	2.0	5.0	10
2-Nitrotoluene	0.025	0.05	0.10	0.25	0.50	1.0	2.0	5.0	10
3-Nitrotoluene	0.025	0.05	0.10	0.25	0.50	1.0	2.0	5.0	10
4-Nitrotoluene	0.025	0.05	0.10	0.25	0.50	1.0	2.0	5.0	10
1,3,5-Trinitrobenzene	0.025	0.05	0.10	0.25	0.50	1.0	2.0	5.0	10
Tetryl	0.025	0.05	0.10	0.25	0.50	1.0	2.0	5.0	10
TNT	0.025	0.05	0.10	0.25	0.50	1.0	2.0	5.0	10

#### Full Scan MS Calibration Set

M-529-MS-SET 6 x 1 mL  
M-529-03, M-529-05, M-529-06,  
M-529-07, M-529-08, M-529-09

#### SIM Calibration Set

M-529-SIM-SET 7 x 1 mL  
M-529-01, M-529-02, M-529-03, M-529-04,  
M-529-05, M-529-06, M-529-07

Storage Condition.: Freeze (<-10°C)

#### Internal Standard Stock Solution

M-529-IS

1 x 1 mL

2.0 mg/mL Ethyl acetate

3,4-Dinitrotoluene

#### Internal Standard Fortification Solution

M-529-ISFS

1 x 1 mL

2.0 mg/mL Ethyl acetate

14 comps.

2-Amino-4,6-dinitrotoluene	Nitrobenzene
4-Amino-2,6-dinitrotoluene	2-Nitrotoluene
3,5-Dinitroaniline	3-Nitrotoluene
1,3-Dinitrobenzene	4-Nitrotoluene
2,4-Dinitrotoluene	1,3,5-Trinitrobenzene
2,6-Dinitrotoluene	Tetryl
RDX	TNT

Additional Explosive Standards are available, see our International Catalog or visit [AccuStandard.com](http://AccuStandard.com)

## Method 1613 (EN-1948, JIS-K0311 & JIS-K0312) Dioxins & Furans by HRGC/HRMS

Native Solutions of the USEPA Method 1613 analytes. These mixes can also be used for USEPA Method 23, 8280 and 8290. They also cover EU Method EN-1948 and Japanese Methods JIS-K0311 and JIS-K0312.

#### Calibration Set

M-1613-CAL-SET (-01,-02,-03,-04,-05)

5 x 1 mL

All in ng/mL in Nonane

17 comps.

#### Precision and Recovery Standard

M-1613-PAR Bold (-04)

1 x 1 mL

M-1613-PAR-PAK

5 x 1 mL

All units in ng/mL in Nonane

17 comps.

M-1613-CAL	-01	-02	-03	-04	-05
2,3,7,8-Tetrachlorodibenzo-p-dioxin	0.5	2	10	40	200
2,3,7,8-Tetrachlorodibenzofuran	0.5	2	10	40	200
1,2,3,7,8-Pentachlorodibenzo-p-dioxin	2.5	10	50	200	1000
1,2,3,7,8-Pentachlorodibenzofuran	2.5	10	50	200	1000
2,3,4,7,8-Pentachlorodibenzofuran	2.5	10	50	200	1000
1,2,3,4,7,8-Hexachlorodibenzo-p-dioxin	2.5	10	50	200	1000
1,2,3,6,7,8-Hexachlorodibenzo-p-dioxin	2.5	10	50	200	1000
1,2,3,7,8,9-Hexachlorodibenzo-p-dioxin	2.5	10	50	200	1000
1,2,3,4,7,8-Hexachlorodibenzofuran	2.5	10	50	200	1000
1,2,3,6,7,8-Hexachlorodibenzofuran	2.5	10	50	200	1000
1,2,3,7,8,9-Hexachlorodibenzofuran	2.5	10	50	200	1000
2,3,4,6,7,8-Hexachlorodibenzofuran	2.5	10	50	200	1000
1,2,3,4,6,7,8-Heptachlorodibenzo-p-dioxin	2.5	10	50	200	1000
1,2,3,4,6,7,8-Heptachlorodibenzofuran	2.5	10	50	200	1000
1,2,3,4,7,8,9-Heptachlorodibenzofuran	2.5	10	50	200	1000
1,2,3,4,6,7,8,9-Octachlorodibenzo-p-dioxin	5	20	100	400	2000
1,2,3,4,6,7,8,9-Octachlorodibenzofuran	5	20	100	400	2000

#### Surrogate Analyte Stock Solutions

M-529-SS1

1 x 1 mL

M-529-SS1-PAK

SAVE 20%

5 x 1 mL

100 µg/mL each in MeOH

2 comps.

1,3,5-Trimethyl-2-nitrobenzene 1,2,4-Trimethyl-5-nitrobenzene

M-529-SS2

1 x 1 mL

M-529-SS2-PAK

SAVE 20%

5 x 1 mL

100 µg/mL each in MeOH

Nitrobenzene-d<sub>5</sub>

#### Surrogate Analyte Fortification Solution

M-529-SAFS

1 x 1 mL

100 µg/mL each in MeOH

3 comps.

1,3,5-Trimethyl-2-nitrobenzene Nitrobenzene-d<sub>5</sub>  
1,2,4-Trimethyl-5-nitrobenzene

## Gun Surveillance Standard

#### Gun Surveillance Standard

EXP-GSS

1 x 1 mL

At stated conc. in AcCN

9 comps.

µg/mL		µg/mL	
Dimethyl phthalate	200	2,2'-Dinitrodiphenylamine	50
2,4'-Dinitrodiphenylamine	50	4,4'-Dinitrodiphenylamine	50
2,4-Dinitrodiphenylamine	50	Diphenylamine	200
2-Nitrodiphenylamine	50	N-Nitrosodiphenylamine	75
4-Nitrodiphenylamine	50		

#### 2,3,7,8 Isomers only Mix

This solution is for those labs only determining the concentration of the two most toxic isomers.

M-1613-DF

1 x 1 mL

40 ng/mL each in Nonane

2 comps.

2,3,7,8-Tetrachlorodibenzo-p-dioxin  
2,3,7,8-Tetrachlorodibenzofuran

# EPA Method 1626, ISO/DIN 22032 & PBDE Congeners

## Method 1626

### p-tert-Octylphenol, Nonylphenol Monoethoxylate & Nonphenol Diethoxylate and Tech Nonylphenol, Mono- & Di-ethoxylate

Nonylphenol ethoxylates and alkylphenol ethoxylates have been produced in large quantities in the U.S and around the world. They are used in many different applications: oil-soluble detergents, emulsifiers, wetting agents, lubricants, and antistatic agents. Breakdown products have been shown to be possible endocrine disruptors.

In January of 2004, the US EPA proposed ambient water quality criteria for nonylphenol. The EPA is working with ASTM to develop and validate a method for nonylphenol and alkylphenol ethoxylates.

### Nonylphenol Calibration Standard Solution

<b>M-1626</b>	<b>1 x 1 mL</b>
<i>At stated conc. in CH<sub>2</sub>Cl<sub>2</sub></i>	7 comps.
Nonylphenol	(160 µg/mL)
Nonylphenol monoethoxylate	(320 µg/mL)
Nonylphenol diethoxylate	(640 µg/mL)
4-tert-Octylphenol	(32 µg/mL)
Bisphenol A	(32 µg/mL)
4-nonylphenol	(32 µg/mL)
4-nonylphenol monoethoxylate	(32 µg/mL)

### Nonylphenol Internal Standard

<b>M-1626-IS</b>	<b>1 x 1 mL</b>
<i>2000 µg/mL each in CH<sub>2</sub>Cl<sub>2</sub></i>	2 comps.
Acenaphthene-d <sub>10</sub>	Phenanthrene-d <sub>10</sub>

### Nonylphenol Target Component Spike Standard

<b>M-1626-S</b>	<b>1 x 1 mL</b>
<i>At stated conc. in MeOH</i>	5 comps.
Nonylphenol	(160 µg/mL)
Nonylphenol monoethoxylate	(320 µg/mL)
Nonylphenol diethoxylate	(640 µg/mL)
4-tert-Octylphenol	(32 µg/mL)
Bisphenol A	(32 µg/mL)

### Nonylphenol Surrogate Component Spike Standard

<b>M-1626-SS</b>	<b>1 x 1 mL</b>
<i>32 µg/mL each in MeOH</i>	2 comps.
4-Nonylphenol	4-Nonylphenol monoethoxylate

## ISO/DIS 22032

### DRAFT INTERNATIONAL STANDARD

#### ISO/DIS 22032 Calibration Curve Set

<b>ISO/DIS-22032-SET</b>	<b>7 x 1 mL</b>						
<i>At stated conc. (ng/mL) in Isooctane</i>	8 comps. each						
(BZ#)							
<b>ISO/DIS-22032</b>	<b>01</b>	<b>02</b>	<b>03</b>	<b>04</b>	<b>05</b>	<b>06</b>	<b>07</b>
2,2',4,4'-Tetrabromodiphenyl ether (#47)	5	12.5	25	50	100	150	250
2,2',4,4',5-Pentabromodiphenyl ether (#99)	5	12.5	25	50	100	150	250
2,2',4,4',6-Pentabromodiphenyl ether (#100)	5	12.5	25	50	100	150	250
2,2',4,4',5,5'-Hexabromodiphenyl ether (#153)	5	12.5	25	50	100	150	250
2,2',4,4',5,6'-Hexabromodiphenyl ether (#154)	5	12.5	25	50	100	150	250
2,2',3,4,4',5,6-Heptabromodiphenyl ether (#183)	5	12.5	25	50	100	150	250
2,3,3',4,4',5,5',6-Octabromodiphenyl ether (#205)	5	12.5	25	50	100	150	250
2,2',3,3',4,4',5,5',6,6'-Decabromodiphenyl ether (#209)	25	50	100	200	500	700	1000

### ISO/DIS 22032 Internal Standard for BDE-47, 99 & 100

<b>ISO22032-IS-1-5ML</b>	<b>1 x 5 mL</b>
<b>ISO22032-IS-1-10ML</b>	<b>1 x 10 mL</b>
<i>100 ng/mL each in Isooctane</i>	

2,2',4,4'-Tetrabromodiphenyl ether

### ISO/DIS 22032 Internal Standard for BDE-153, 154 & 183

<b>ISO22032-IS-2-5ML</b>	<b>1 x 5 mL</b>
<b>ISO22032-IS-2-10ML</b>	<b>1 x 10 mL</b>
<i>100 ng/mL each in Isooctane</i>	

2,2',3,4,4',5,6-Heptabromodiphenyl ether



**PBDE congeners (over 160), mixes and metabolites are added continuously. For an update, check our website. [AccuStandard.com](http://AccuStandard.com)**

## New PBDE Congeners (over 160 total)

Compound	Conc.	Solvent	Cat. No. (1 mL)
2,2',3,5'-Tetrabromodiphenyl ether	50 µg/mL	Isooctane	BDE-044S
2,2',5,5'-Tetrabromodiphenyl ether	50 µg/mL	Isooctane	BDE-052S
2,3,3',4'-Tetrabromodiphenyl ether	50 µg/mL	Isooctane	BDE-056S
2,3',4',5'-Tetrabromodiphenyl ether	50 µg/mL	Isooctane	BDE-070S
2,2',3,3',4,5-Hexabromodiphenyl ether	50 µg/mL	Isooctane	BDE-129S
2,2',3,3',4,5,5',6,6'-Nonabromodiphenyl ether	50 µg/mL	Isooctane	BDE-208S

# Methoxy PCBs, EFSA (ITX), EU 67/548/EEC (Dyes) & Biodiesels

## Methoxy PCBs

### Methoxy PCBs

Each at 100 µg/mL in Isooctane	1 mL
2-Methoxy-5-chlorobiphenyl	MOPCB-1001S
4-Methoxy-2-chlorobiphenyl	MOPCB-1002S
4-Methoxy-3-chlorobiphenyl	MOPCB-1003S
4-Methoxy-4'-chlorobiphenyl	MOPCB-1004S
3-Methoxy-2',5'-dichlorobiphenyl	MOPCB-2002S
4-Methoxy-2',5'-dichlorobiphenyl	MOPCB-2003S
4-Methoxy-3,5-dichlorobiphenyl	MOPCB-2004S
2-Methoxy-2',3'-dichlorobiphenyl	MOPCB-2005S
2-Methoxy-2',3'-dichlorobiphenyl	MOPCB-2006S
2-Methoxy-2',4',6'-trichlorobiphenyl	MOPCB-3001S
2-Methoxy-2',5,5'-trichlorobiphenyl	MOPCB-3002S
3-Methoxy-2',4',6'-trichlorobiphenyl	MOPCB-3003S
4-Methoxy-2,2',5'-trichlorobiphenyl	MOPCB-3004S
4-Methoxy-2',3,5'-trichlorobiphenyl	MOPCB-3005S
4-Methoxy-2',4',6'-trichlorobiphenyl	MOPCB-3006S
2-Methoxy-2',3',4',5'-tetrachlorobiphenyl	MOPCB-4001S
2-Methoxy-2',3',5',6'-tetrachlorobiphenyl	MOPCB-4002S
2-Methoxy-2',4',5,6'-tetrachlorobiphenyl	MOPCB-4003S
3-Methoxy-2',3',4',5'-tetrachlorobiphenyl	MOPCB-4004S
3-Methoxy-2',3',5',6'-tetrachlorobiphenyl	MOPCB-4005S
4-Methoxy-2',3',4',5'-tetrachlorobiphenyl	MOPCB-4007S
4-Methoxy-2',3,4',6'-tetrachlorobiphenyl	MOPCB-4008S
4-Methoxy-2',3,5,5'-tetrachlorobiphenyl	MOPCB-4009S
2-Methoxy-2',3',4',5,5'-pentachlorobiphenyl	MOPCB-5001S
2-Methoxy-2',3',5,5',6'-pentachlorobiphenyl	MOPCB-5002S
4-Methoxy-2,2',3',4',5'-pentachlorobiphenyl	MOPCB-5003S
4-Methoxy-2,2',3',5',6'-pentachlorobiphenyl	MOPCB-5004S
4-Methoxy-2,2',4',5,5'-pentachlorobiphenyl	MOPCB-5009S
2-Methoxy-2',3,4',5',6'-pentachlorobiphenyl	MOPCB-5010S
4-Methoxy-2',3,3',4',5,5'-hexachlorobiphenyl	MOPCB-6001S

## New PCB Metabolites (over 35 total)

Each at 100 µg/mL in Isooctane	1 mL
3-OH-2,2',4',5,5'-Pentachlorobiphenyl	HPCB-5008S
4-OH-2,2',4',5,5'-Pentachlorobiphenyl	HPCB-5009S

## BioDiesel Standards

	Conc.	Solvent	Cat. No. ( 1 mL)
Biodiesel 20 <b>NEW</b>	0.5 mg/mL	CH <sub>2</sub> Cl <sub>2</sub>	FU-030-D
	20 mg/mL	CH <sub>2</sub> Cl <sub>2</sub>	FU-030-D-40X
Biodiesel 100 <b>NEW</b> (commercial grade)	0.5 mg/mL	CH <sub>2</sub> Cl <sub>2</sub>	FU-029-D
	20 mg/mL	CH <sub>2</sub> Cl <sub>2</sub>	FU-029-D-40X

## Motor Fuels & Lubricating Oils Set

TPH-001-R1-SET	mg/mL	Solvent	Cat. No.	13 x 1 mL
Regular unleaded	20	MeOH	GA-001-40X	
Regular leaded	20	MeOH	GA-002-40X	
Premium	20	MeOH	GA-003-40X	
RFA Gasoline (oxygenate free)	20	MeOH	GA-005-40X	
#2 Diesel (conventional)	20	CH <sub>2</sub> Cl <sub>2</sub>	FU-009-D-40X	
#1 Diesel (low sulfur)	20	CH <sub>2</sub> Cl <sub>2</sub>	FU-013-D-40X	
#2 Diesel (extra low sulfur)	20	CH <sub>2</sub> Cl <sub>2</sub>	FU-017-D-40X	
Arctic Diesel	20	CH <sub>2</sub> Cl <sub>2</sub>	FU-023-D-40X	
SAE 30 W motor oil	20	CH <sub>2</sub> Cl <sub>2</sub>	FU-018-D-40X	
SAE 40 W motor oil	20	CH <sub>2</sub> Cl <sub>2</sub>	FU-019-D-40X	
SAE 50 W motor oil	20	CH <sub>2</sub> Cl <sub>2</sub>	FU-021-D-40X	
Biodiesel 20 <b>NEW</b>	20	CH <sub>2</sub> Cl <sub>2</sub>	FU-030-D-40X	
Biodiesel 100 <b>NEW</b>	20	CH <sub>2</sub> Cl <sub>2</sub>	FU-029-D-40X	

Additional Fuel & Hydrocarbon Standards are available, see our International Catalog or visit our website [AccuStandard.com](http://AccuStandard.com)

## European Food Safety Authority (EFSA) for Isopropylthioxanthone (ITX)

Responding to the new hazard found in Italy, France, Spain, and Portugal, AccuStandard has formulated standards for Isopropylthioxanth-9-one (a photographic chemical) found in baby milk in Italy. This latest reference standard is available now as the main component: the 2-isomer as well as the technical mixture which also contains the 4-isomer.

### 2-Isopropylthioxanthone (ITX)

EFSA-ITX-01 1 x 1 mL  
1.0 mg/mL in Isooctane

2-Isopropylthioxanth-9-one

### Isopropylthioxanthone (ITX) mixed isomers

EFSA-ITX-02 1 x 1 mL  
1.0 mg/mL in Isooctane

2- & 4-Isopropylthioxanth-9-one

## EU Directive 67/548/EEC Dyes

### Dye Standards

Criterion #22 Regulated Dyes - Carcinogenic		
Each in 100 µg/mL in MeOH	Cat. No.	Unit
Disperse Blue 1	DYE-001S	1 mL
Disperse Orange 11	DYE-002S	1 mL
Disperse Yellow 3	DYE-003S	1 mL
Basic Violet 14	DYE-012S	1 mL
Direct Black 38	DYE-013S	1 mL
Direct Blue 6	DYE-014S	1 mL

Criterion #23 Regulated Dye - Disperse dyes, Sensitizing		
Each in 100 µg/mL in MeOH	Cat. No.	Unit
Disperse Blue 3	DYE-004S	1 mL
Disperse Orange 1	DYE-005S	1 mL
Disperse Orange 3	DYE-006S	1 mL
Disperse Red 1	DYE-007S	1 mL
Disperse Yellow 9	DYE-008S	1 mL
Disperse Blue 35	DYE-009S	1 mL
Disperse Blue 124	DYE-010S	1 mL
Disperse Orange 37	DYE-011S	1 mL
Disperse Blue 7	DYE-015S	1 mL
Disperse Blue 26	DYE-016S	1 mL
Disperse Blue 102	DYE-017S	1 mL
Disperse Red 11	DYE-018S	1 mL
Disperse Red 17	DYE-019S	1 mL

## Not Lot™ Program

AccuStandard has developed the NotLot Program for customers to meet regulatory, auditor and laboratory requirements for the use of independent lots without having to place two different orders with two different companies. NotLots are the simplest way to verify the accuracy of your analysis without the added paperwork required when using lots from two different manufacturers.

NotLots are the same formulation of materials as the first lot, and are made independently.

This program is available on selected catalog items. Ask your Customer Service Representative for the catalog number and a NotLot.

NotLots will be provided at the regular list price for the more common products, and for the same price but with a minimum quantity of 5 for the less common and Custom (S-) products. NotLots may not be available for resale items, kits, Paks, or Inorganic Standards.

# PFOAs & Odor Standards

## Perfluorooctanoic Acid (PFOAs)

Perfluorooctanoic Acid, also commonly referred to by its acronym PFOA, is a synthetic chemical that is not naturally occurring in the environment. PFOA is used to refer to not only the Perfluorooctanoic Acid, but also its principal salts and Perfluorooctane sulfonate (PFOS). These groups of compounds are typically used to aid in the manufacturing of fluoropolymers. These polymers have valuable properties of fire resistance, oil, stain and grease repellence. They are also commonly used in fire fighting foams. Fluoropolymers will thermally and biologically decompose to form the PFOAs.

Recent studies by the EPA have indicated the potential need for concern and the necessity for additional analytical testing and monitoring. PFOAs have been determined to bioaccumulate and are highly persistent. Continued testing has shown that this class of compounds is widely distributed in the environment. Toxicological studies have shown that exposure to PFOAs can result in developmental/reproductive toxicity, liver damage and possibly cancer.

AccuStandard has responded to the need for reference Standards to support this research and is introducing the following line of products. These products have been chosen to offer a few of the most popular compounds. If there is another salt or derivative that you do not see, but require for your analysis, contact our Technical Department by phone or e-mail at [techservice@accustandard.com](mailto:techservice@accustandard.com) for a quotation.

PFOAs	CAS No.	Conc.	Matrix	Cat. No.	Unit
Perfluorooctanoic acid	335-67-1	100 mg	NEAT	PFOA-001N	100 mg
		100 µg/mL	MeOH	PFOA-001S	1 mL
Perfluorooctane sulfonic acid	1763-23-1	100 mg	NEAT	PFOS-001N	100 mg
		100 µg/mL	MeOH	PFOS-001S	1 mL
Potassium perfluorooctanesulfonate	2795-39-3	100 mg	NEAT	PFOS-002N	100 mg
		100 µg/mL	MeOH	PFOS-002S	1 mL

## Odor Standards

Odor determination is now possible with the new Odor Chemical Reference Materials, including both Quantitative and Qualitative Standards. Growing demand for determination of odor in drinking water, waste water, and solids has prompted AccuStandard to develop a complete line of Odor Standards. Products include the required Japanese Quantitative Standards, as well as products to meet the Standard Methods Odor Testing Parameters.

### Individual Odor Standards

	CAS No.	Conc. / Solvent	Cat. No.	Unit
(+/-) Geosmin	16423-19-1	2 µg/mL in MeOH	ODOR-01S	1 mL
2-methylisoborneol	2371-42-8	2 µg/mL in MeOH	ODOR-02S	1 mL
trans-2, cis-6-Nonadienal	557-48-2	NEAT	ODOR-03N	10 mg
Styrene	100-42-5	NEAT	ODOR-04N	10 mg
Toluene	108-88-3	NEAT	ODOR-05N	10 mg
Cumene	98-82-8	NEAT	ODOR-06N	10 mg
m-Xylene	108-38-3	NEAT	ODOR-07N	10 mg
cis-3-Hexenyl acetate	3681-71-8	NEAT	ODOR-08N	10 mg
cis-3-Hexen-1-ol	928-96-1	NEAT	ODOR-09N	10 mg
Methyl isobutyl ketone	108-10-1	NEAT	ODOR-10N	10 mg
Indene	95-13-6	NEAT	ODOR-11N	10 mg
Indan	496-11-7	NEAT	ODOR-12N	10 mg
Naphthalene	91-20-3	NEAT	ODOR-13N	10 mg
2-Methylbenzofuran	4265-25-2	NEAT	ODOR-14N	10 mg
2,4,6-Trichloroanisole	87-41-1	1000 µg/mL in MeOH	ODOR-15S-10ML	10 mL
2-Isopropyl-3-methoxypyrazine	25773-40-4	1000 µg/mL in MeOH	ODOR-16S-10ML	10 mL
2-Isobutyl-3-methoxypyrazine	24683-00-9	1000 µg/mL in MeOH	ODOR-17S-10ML	10 mL



### Odor Set

#### ODOR-STM-SET

12 x 10 mg

trans-2, cis-6-Nonadienal	cis-3-Hexen-1-ol
Styrene	Methyl isobutyl ketone
Toluene	Indene
Cumene	Indan
m-Xylene	Naphthalene
cis-3-Hexenyl acetate	2-Methylbenzofuran

### Japan Drinking Water Odor Standard

#### ODOR-JDWOS

100 µg/mL each in MeOH

1 x 1 mL

2 comps.

(+/-) Geosmin  
2-methylisoborneol

# Eco-Labeling (Oeko-Tex Standard 1000)

## Eco-Labeling (Oeko-Tex Standard 1000)

Textile manufacturers conforming to the Oeko-Tex Standard 1000 are granted the "Eco Friendly" label. Textiles receiving the "Eco Friendly" label will not pose any environmental threat when disposed as a household waste. Our Chemical Reference Standards are available to assist companies and their laboratories meet these analytical requirements. Included in this line of Standards are Pesticides, Dyes, Flame Retardants and Allergens.

Extractable Heavy Metals  
Pesticides  
Chlorinated Phenols  
PVC Plasticizers (Phthalates)  
Formaldehyde

Arylamines MAK III, Category 1  
Arylamines MAK III, Category 2  
Dyes Classified as Carcinogens  
Dyes Classified as Allergens  
Chlorinated Benzenes and Toluenes

Flame Retardants  
Volatile Emissions  
Organic Tin Compounds  
Other Chemical Residues

### Extractable Heavy Metals (100 mL at 1000 µg/mL)

<b>Sb (Antimony)</b> ICP-02W-1 (in Water)	Co (Cobalt) ICP-14N-1 (in Nitric acid)
<b>As (Arsenic)</b> ICP-03N-1 (in Nitric acid)	Cu (Copper) ICP-15N-1 (in Nitric acid)
<b>Pb (Lead)</b> ICP-29N-1 (in Nitric acid)	Ni (Nickel) ICP-37N-1 (in Nitric acid)
<b>Cd (Cadmium)</b> ICP-08N-1 (in Nitric acid)	Hg (Mercury) ICP-34N-1 (in Nitric acid)
<b>Cr (Chromium)</b> ICP-13N-1 (in Nitric acid)	

### Chlorinated Phenols (1 mL at 100 µg/mL in MeOH)

Pentachlorophenol APP-9-176	2,3,4,6-Tetrachlorophenol APP-9-195
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### PVC Plasticizers (Phthalates)

(1 mL at 100 µg/mL in MeOH) BBP (Benzylbutyl phthalate) APP-9-034	DBP (Dibutyl phthalate) APP-9-063
DINP (Diisononyl phthalate) ALR-102S	DNOP (Di-n-octyl phthalate) APP-9-095
DEHP (Di-2-ethylhexyl phthalate) APP-9-029	DIDP (Diisodecyl phthalate) ALR-101S

### Formaldehyde (1 mL at 1000 µg/mL in Water)

Formaldehyde	M-554-06
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### Flame Retardants (1 mL at 50 µg/mL in Isooctane)

Polybrominated biphenyl	B-600S (100 µg/mL)
Tri-(2,3-dibromopropyl)-phosphate	*
Tris-(aziridinyl)-phosphineoxide	*
Pentabromodiphenyl ether	BDE-088S
Octabromodiphenyl ether	BDE-798

### Volatile Emissions (1 mL at 100 µg/mL in MeOH)

Formaldehyde	M-554-06	4-Phenylcyclohexane *	
Toluene	M-502-46	Butadiene	S-406A
Styrene	M-502-42	Vinyl chloride	M-502-56
Vinylcyclohexene *			

### Pesticides (1 mL at 100 µg/mL in MeOH)

Aldrin	P-002S	Endosulfan - Mixed Isomers	P-435S
Azinphos-ethyl	P-201S	Endosulfan II	P-092S
Azinphos-methyl	P-007S	Endrin	P-045S
Bromophos-ethyl	P-372S	Esfenvalerate	P-525S
Captafol	P-254S	Fenvalerate	P-194S
Carbaryl	P-083S	Heptachlor	P-053S
Chlordane	P-017S	Heptachlor epoxide	P-054S
Chlordimeform	P-333S	Hexachlorobenzene	APP-9-112
Chlorfenvinphos	P-139S	Hexachlorocyclohexane, a-BHC, a-HCH	P-010S
Coumaphos	P-019S	Hexachlorocyclohexane, b-BHC, b-HCH	P-011S
Cyfluthrin	P-354S	Hexachlorocyclohexane, g-BHC, g-HCH	P-012S
Cyhalothrin	P-473S	Mecoprop	P-154S
Cypermethrin	P-225S	Methamidophos	P-155S
2,4-D	P-020S	Methoxychlor	P-064S
DEF	P-150S	Mirex	P-066S
Deltamethrin	P-335S	Monocrotophos	P-112S
o,p'-DDD	P-024S	Parathion, Parathion-ethyl	P-070S
o,p'-DDE	P-026S	Parathion-methyl	P-065S
o,p'-DDT	P-028S	Phosdrin, Mevinphos	P-074S
p,p'-DDD	P-025S	Propetamphos	P-417S
p,p'-DDE	P-027S	Profenophos	P-260S
p,p'-DDT	P-029S	Quinalphos	P-462S
Diazinon	P-033S	2,4,5-T	P-168S
Dichlorprop	P-143S	Toxaphene, Camphechlor	P-093S
Dicrotophos	P-178S	Trifluralin	P-197S
Dieldrin	P-037S		
Dimethoate	P-039S		
Dinoseb	P-144S		

### Arylamines MAK III, Category 1 (1 mL at 100 µg/mL in AcCN, unless noted)

4-Aminodiphenyl (in MeOH)	APP-9-011	2-Naphthylamine	RAC-16
Benzidine	RAC-04	4-Chloro-o-toluidine	RAC-06

### Arylamines MAK III, Category 2 (1 mL at 100 µg/mL in AcCN, unless noted)

4-Aminoazobenzene	RAC-21	3,3'-Dimethoxybenzidine	RAC-12
o-Aminoazotoluene	RAC-01	3,3'-Dimethylbenzidine	RAC-13
2-Amino-4-nitrotoluene	RAC-03	2,6-Dimethylaniline	L-018S-CN
o-Anisidine	RAC-23	3,3'-Dimethyl-4,4'-diaminobiphenylmethane	
p-Chloraniline	RAC-05		RAC-14
p-Cresidine	RAC-07	4,4'-Methylene-bis-(2-chloroaniline)	
2,4-Diaminoanisole (in MeOH)	ALR-070S		RAC-15
(4-methoxy-m-phenylenediamine)		4,4'-Oxydianiline	RAC-17
4,4'-Diaminobiphenylmethane	RAC-09	4,4'-Thiodianiline	RAC-18
2,4-Diaminotoluene	RAC-10	o-Toluidine	APP-9-199
3,3'-Dichlorobenzidine (MeOH)	APP-9-067	(MeOH)	

\* Contact Technical Service for Quotation

# Eco-Labeling & RoHS/WEEE Regulations (2002/95/EC)

## Eco-Labeling (Oeko-Tex Standard 1000) (Continued)

### Chlorinated Benzenes & Toluenes (1 mL at 100 µg/mL in MeOH)

Chlorinated Benzenes and Toluenes		
1,2-Dichlorobenzene	APP-9-064	1,2,3-Trichlorobenzene M-502-47
1,3-Dichlorobenzene	APP-9-065	1,2,4-Trichlorobenzene APP-9-201
1,4-Dichlorobenzene	APP-9-066	Pentachlorobenzene APP-9-173
Hexachlorobenzene	APP-9-112	1,2,4,5-Tetrachlorobenzene APP-9-191
2-Chlorotoluene	M-502-15	1,3,5-Trichlorobenzene AS-E0176
3-Chlorotoluene	AS-E0151	a,a,a-Trichlorotoluene M-624-SS-14
4-Chlorotoluene	M-502-16	2,3,6-Trichlorotoluene *
1,2,3,4-Tetrachlorobenzene	AS-E0225	a,a,3-Trichlorotoluene *
1,2,3,5-Tetrachlorobenzene	A-009	a,2,6-Trichlorotoluene *
2,3-Dichlorotoluene	*	a,2,4-Trichlorotoluene *
2,4-Dichlorotoluene	AS-E0149	a,3,4-Trichlorotoluene *
2,5-Dichlorotoluene	*	a,a,2,6-Tetrachlorotoluene *
2,6-Dichlorotoluene	*	p,a,a,a-Tetrachlorotoluene *
3,4-Dichlorotoluene	*	a,2,3,6-Tetrachlorotoluene *
aa-Dichlorotoluene	*	2,4,a,a,a-Pentachlorotoluene*
2,4,5-Trichlorotoluene	*	2,3,4,5,6-Pentachlorotoluene*
		a,a,a,3,4-Pentachlorotoluene*

### Dyes Classified as Carcinogens

(1 mL at 100 µg/mL in MeOH)			
Acid Red 26	*	Direct Red 28	*
Basic Red 9	*	Disperse Blue 1	DYE-001S
Basic Violet 14	DYE-012S	Disperse Orange 11	DYE-002S
Direct Black 38	DYE-013S	Disperse Yellow 3	DYE-003S
Direct Blue 6	DYE-014S		

### Dyes Classified as Allergens (1 mL at 100 µg/mL in MeOH)

Disperse Blue 1	DYE-001S	Disperse Orange 37	DYE-011S
Disperse Blue 3	DYE-004S	Disperse Orange 76	*
Disperse Blue 7	DYE-015S	Disperse Red 1	DYE-007S
Disperse Blue 26	DYE-016S	Disperse Red 11	DYE-018S
Disperse Blue 35	DYE-009S	Disperse Red 17	DYE-019S
Disperse Blue 102	DYE-017S	Disperse Yellow 1	*
Disperse Blue 106	*	Disperse Yellow 3	DYE-003S
Disperse Blue 124	DYE-010S	Disperse Yellow 9	DYE-008S
Disperse Brown 1	*	Disperse Yellow 39	*
Disperse Orange 1	DYE-005S	Disperse Yellow 49	*
Disperse Orange 3	DYE-006S		

\* Contact Technical Service for Quotation

### Organic Tin Compounds

TBT (Tributyltin) \*  
DBT (Dibutyltin) \*

### Other Chemical Residues (1 mL at 100 µg/mL in MeOH)

Orthophenylphenol (OPP) P-460S

## RoHS/WEEE Regulations (2002/95/EC)

Restriction of the use of certain Hazardous Substances in Electrical and Electronic Equipments Regulations 2004.

Regulated Substance	Cat. No.	Product Description	Concentration
<b>Mercury</b>	ICP-34N-1	Mercury ICP Standard	1000 ppm in HNO3
<b>Lead</b>	ICP-29N-1	Lead ICP Standard	1000 ppm in HNO3
<b>Cadmium</b>	ICP-08N-1	Cadmium ICP Standard	1000 ppm in 2% Nitric acid
<b>Hexavalent Chromium</b>	WC-HEX-10X-1	Hexavalent Chromium (Cr6+) Standard	1000 µg/mL in Water
<b>PBBs</b>	B-049S	2,2',4,5'-Tetrabromobiphenyl	35 µg/mL in Isooctane
see our catalog	B-077S	3,3',4,4'-Tetrabromobiphenyl	35 µg/mL in Isooctane
for the complete	B-103S	2,2',4,5',6-Pentabromobiphenyl	35 µg/mL in Isooctane
listing of PBBs	B-153S	2,2',4,4',5,5'-Hexabromobiphenyl	35 µg/mL in Isooctane
	B-209S	Decabromodiphenyl	35 µg/mL in Isooctane
	B-250S	Dow FR-250 (Octabromobiphenyl)	100 µg/mL in Isooctane
<b>PBDEs</b>	BDE-028S	2,4,4'-Tribromodiphenyl ether	50 µg/mL in Isooctane
see our catalog	BDE-047S	2,2',4,4'-Tetrabromodiphenyl ether	50 µg/mL in Isooctane
for the complete	BDE-099S	2,2',4,4',5-Pentabromodiphenyl ether	50 µg/mL in Isooctane
listing of PBDEs	BDE-100S	2,2',4,4',6-Pentabromodiphenyl ether	50 µg/mL in Isooctane
	BDE-153S	2,2',4,4',5,5'-Hexabromodiphenyl ether	50 µg/mL in Isooctane
	BDE-154S	2,2',4,4',5,6'-Hexabromodiphenyl ether	50 µg/mL in Isooctane
	BDE-183S	2,2',3,4,4',5',6-Heptabromodiphenyl ether	50 µg/mL in Isooctane
	BDE-209S	Decabromodiphenyl ether	50 µg/mL in Isooctane

## 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  
1000 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

## PAH Mixture Quebec Ministry of Environment

### PAH Standard

**H-QME-01** 1 x 1 mL  
500 µg/mL each in CH<sub>2</sub>Cl<sub>2</sub> 24 comps

Acenaphthene  
Acenaphthylene  
Anthracene  
Benz[a]anthracene  
Benzo[b]fluoranthene  
Benzo[j]fluoranthene  
Benzo[k]fluoranthene  
Benzo[g,h,i]perylene  
Benzo[c]phenanthrene  
Benzo[a]pyrene  
Benzo[e]pyrene  
Chrysene  
Dibenz[a,h]anthracene  
Dibenzo[a,h]pyrene  
Dibenzo[a,i]pyrene  
Dibenzo[a,l]pyrene  
7,12-Dimethylbenz[a]anthracene  
Fluoranthene  
Fluorene  
Indeno[1,2,3-cd]pyrene  
3-Methylcholanthrene  
Naphthalene  
Phenanthrene  
Pyrene

## Petroleum Brownfield Regulation

Newly approved Brownfield Regulation that has been approved by the Canadian Council for the Ministry of the Environment (CCME) as of October 1, 2004.

### Light Petroleum Fraction

**CCME-LPF-SET** 5 x 1 mL  
At stated conc. in MeOH 8 comps.

	CCME-LPF-0.05X µg/mL	CCME-LPF-0.1X µg/mL	CCME-LPF-0.2X µg/mL	CCME-LPF-0.5X µg/mL	CCME-LPF µg/mL
n-Decane	12.5	25	50	125	250
n-Hexane	12.5	25	50	125	250
Toluene	12.5	25	50	125	250
Benzene	12.5	25	50	125	250
o-Xylene	12.5	25	50	125	250
m-Xylene	6.25	12.5	25	62.5	125
p-Xylene	6.25	12.5	25	62.5	125
Ethylbenzene	12.5	25	50	125	250

### Medium & Heavy Petroleum Fraction

**CCME-MHPF-SET** 3 x 1 mL  
At stated conc. in n-Hexane 3 comps.

	CCME-MHPF-0.1X µg/mL	CCME-MHPF-0.5X µg/mL	CCME-MHPF µg/mL
n-Decane	40	200	400
n-Hexadecan	40	200	400
n-Tetracontane	40	200	400

### Performance Check Standard

**CCME-QC** 1 x 1 mL  
**CCME-QC-PAK** 5 x 1 mL  
40 µg/mL each in n-Hexane:Cyclohexane 2 comps.

n-Pentacontane  
n-Tetracontane

### Spike Standard

**CCME-SPIKE** 1 x 1 mL  
2500 µg/mL each in n-Hexane 2 comps.

SAE 30W Motor Oil - Non-Detergent Formula  
#2 Diesel Fuel - 50% Weathered



## PERRY JOHNSON REGISTRARS, INC.

### Certificate of Registration

Perry Johnson Registrars, Inc., has assessed the Quality Management System of:

**AccuStandard, Inc.**

125 Market Street, New Haven, CT 06513 United States

(Hereinafter called the Organization) and hereby declares that Organization is in conformance with:

**ISO 9001:2000**

This Registration is in respect to the following scope of supply:

**Design, Development, Production, and Distribution of Inorganic and Organic Neat and Synthetic Chemical Reference Materials Formulated to USEPA, ASTM, Internal, and Custom Designed Specifications**

Such products shall be manufactured by the Organization at, or such processes or services shall be offered at or from, only the address given above. This Registration is granted subject to the system rules governing the Registration referred to above, and the Organization hereby covenants with the Assessment body duty to observe and comply with the said rules.

For PJR:

*Terry Boboige*  
Terry Boboige, President

Perry Johnson Registrars, Inc. (PJR)  
26555 Evergreen, Suite 1340  
Southfield, Michigan 48076  
(248) 358-3388



The validity of this certificate is mandated through ongoing surveillance.

Issue Date:  
May 24, 2005

Expiration Date:  
May 23, 2008

Certificate No:  
C2005-01060



## World Class Quality System



## PERRY JOHNSON LABORATORY ACCREDITATION, INC.

### Certificate of Accreditation

Perry Johnson Laboratory Accreditation, Inc. has assessed the Laboratory Quality System of:

**AccuStandard Inc.**  
125 Market Street  
New Haven, CT 06513

(Hereinafter called the Organization) and hereby declares that Organization is in conformance with:

**ISO/IEC 17025: 1999**

This Accreditation is in respect to the following scope of accreditation:

**Testing and Verification of Manufactured Products Designed for Use as Chemical Reference Standards (as detailed in the supplement).**

Such testing and/or calibration services shall only be offered at or from the address given above. This Accreditation is granted subject to the system rules governing the Accreditation referred to above, and the Organization hereby covenants with the Accreditation body's duty to observe and comply with the said rules.

For PJLA:

*April Stewart*  
Accreditation Manager

The validity of this certificate is mandated through ongoing surveillance.

Perry Johnson Laboratory Accreditation, Inc. (PJLA)  
26555 Evergreen, Suite 1325  
Southfield, Michigan 48076

Issue Date:  
May 12, 2005

Expiration Date:  
May 11, 2007

Certificate No:  
L05-35

Page No:  
Page 1 of 2

# Chemical Reference Standards

- *Newest EPA Methods*

- *More PBDEs*

- *PCB Metabolites*

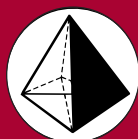
- *ITX*

- *Dyes*

- *PFOAs*

- *Odor Standards*

- *BioDiesel*



**AccuStandard<sup>®</sup>**

A-009:7	DYE-007S:4, 7	M-502-15:7	ODOR-06N:5	P-435S:6
ALR-070S:6	DYE-008S:4, 7	M-502-16:7	ODOR-07N:5	P-462S:6
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APP-9-063:6	DYE-014S:4, 7	M-521-IS:1	ODOR-13N:5	PFOS-001S:5
APP-9-064:7	DYE-015S:4, 7	M-521-IS-PAK:1	ODOR-14N:5	PFOS-002N:5
APP-9-065:7	DYE-016S:4, 7	M-521-SS:1	ODOR-15S-10ML:5	PFOS-002S:5
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CPEST:8	5ML:3	MOPCB-4008S:4	P-155S:6	
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