

CPAchem

*The Experts in Custom-made Standards -
Organic & Inorganic*

ORGANIC STANDARDS – Book 3

CPAchem's
Most Popular
Organic Mixtures



ISO GUIDE 34 | ISO/IEC 17025 | ISO/IEC 17043 | ISO 9001

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General Information

CPAchem Ltd. is the world leader in Certified Reference Materials production (Custom and Stock) with both ISO Guide 34 and ISO/IEC 17025 accreditations.

Our scope

Organic Certified Reference Materials (CRMs)

Stock and Custom-made solutions and substances for GC/GC-MS, HPLC/HPLC-MS:

Stock solutions

- Single and Multi-component solutions
- According to ISO, EN, International Regulations, European and US Pharmacopoeia methods, ASTM and EPA Methods, etc.
- Contaminant standards

Custom-made solutions

CPAchem Ltd. is a world leader in manufacturing of custom reference solutions, prepared to specific customer requirements.

CPAchem's team has gained enormous experience and knowledge on how to prepare custom organic solutions in order to satisfy even the most extraordinary clients' needs.

The lead time - 2 to 5 days. Emergency orders within 24 hours.

Flexibility, saving time, money and efforts.

Synthesis

CPAchem is in the process of completing the range of Polybrominated diphenyl ethers (BDE).

CPAchem has entered the market with more than thousand new organic substances, most of which do not have a CRM substitute.

Inorganic Certified Reference Materials (CRMs)

Custom-made and Stock Inorganic solutions - AAS, ICP and ICP/MS, Ion Chromatography:

- Single and Multi-element
- AAS and ICP Modifiers, Buffers and Reagents
- IC Eluent concentrates

Volumetric and buffers Certified Reference Materials (CRMs)

- Custom-made and Stock Volumetric solutions
- Custom-made and Stock pH and conductivity buffers. Primary pH buffers (Harned Cell)

Pharmacopoeia products

Products according to the European, US, British, Indian, Japanese, and International Pharmacopoeias

Quality Certification and Accreditation

We are an accredited Certified Reference Materials producer (ISO Guide 34) and an accredited testing laboratory (ISO/IEC 17025) - both accreditations by ANSI-ASQ National Accreditation Board - ANAB.

From the beginning of 2016 CPAchem Ltd. has been accredited as a Proficiency Testing Provider - ISO/IEC 17043:2010.

CPAchem's Quality Management System has been approved by Lloyds Register Quality Assurance to ISO 9001:2008 since 2001.

CRM Certification

The Certificates of analysis of organic CRM are designed and the certified value(s) and uncertainty(ies) are determined in accordance with ISO Guide 31, ISO Guide 35.

The uncertainties refer to each of the components separately and not to the uncertainty of the mixture.

CERTIFIED REFERENCE MATERIAL
Organic Standard Solution

This document is designed and the certified value(s) and uncertainty(ies) are determined in accordance with ISO Guide 31⁽¹⁾, ISO Guide 35⁽²⁾ and Eurachem / CITAC Guides⁽³⁾

Lot N: C41800 Batch Number (Barcode): 92238930 Certification Date: 10.11.2015
Date of stability last check:

Description of the Reference Material (CRM): Solution of PAH Standard Solution - 16 components, 2000mg/l each of Acenaphthene [CAS:83-32-9] ; Acenaphthylene [CAS:208-96-8] ; Anthracene [CAS:120-12-7] ; Benzo(a)anthracene [CAS:56-55-3] ; Benzo(a)pyrene [CAS:50-32-8] ; Benzo(b)fluoranthene [CAS:205-99-2] ; Benzo(g,h)perylene [CAS:191-24-2] ; Benzo(k)fluoranthene [CAS:207-08-9] ; Chrysene [CAS:193-39-5] ; Dibenzo(a,h)anthracene [CAS:53-70-3] ; Fluoranthene [CAS:206-44-0] ; Fluorene [CAS:86-73-7] ; Indeno(1,2,3-c,d)pyrene [CAS:193-39-5] ; Naphthalene [CAS:91-20-3] ; Phenanthrene [CAS:85-01-8] ; Pyrene [CAS:129-00-0] in Acetonitrile
Storage conditions: To be stored in a refrigerator at temperature below 4°C

Ref N: F128611

Certified value/ Uncertainty:	Component	Chem. Formula	CAS No.	Certified Value / Uncertainty (mg/l) ^(*)
	Acenaphthene	C ₁₆ H ₁₀	83-32-9	1995.0 ± 27.9
	Acenaphthylene	C ₁₆ H ₈	208-96-8	2002.9 ± 26.0
	Anthracene	C ₁₄ H ₁₀	120-12-7	1995.0 ± 27.9
	Benzo(a)anthracene	C ₁₈ H ₁₂	56-55-3	1996.6 ± 26.1
	Benzo(a)pyrene	C ₂₀ H ₁₂	50-32-8	2003.9 ± 26.8
	Benzo(b)fluoranthene	C ₁₈ H ₁₂	205-99-2	1989.0 ± 26.7
	Benzo(g,h)perylene	C ₂₂ H ₁₄	191-24-2	1997.9 ± 27.9
	Chrysene	C ₁₈ H ₁₂	193-39-5	2003.9 ± 26.8
	Dibenzo(a,h)anthracene	C ₂₂ H ₁₄	53-70-3	2007.6 ± 33.0
	Fluoranthene	C ₁₆ H ₁₀	206-44-0	1989.0 ± 27.8
	Fluorene	C ₁₆ H ₁₄	86-73-7	1998.8 ± 26.3
	Indeno(1,2,3-c,d)pyrene	C ₂₃ H ₁₆	193-39-5	2009.5 ± 26.7
	Naphthalene	C ₁₀ H ₈	91-20-3	2018.9 ± 26.5
	Phenanthrene	C ₁₄ H ₁₀	85-01-8	2001.6 ± 26.3
	Pyrene	C ₁₆ H ₁₀	129-00-0	2002.5 ± 27.9

Concept of Certification and traceability statement:
This certified reference material is produced by gravimetric measurement and dissolving the individual substances in Acetonitrile.




Method of certification: CRM's calibration procedure (WQP 5.15.1/2)
The certified value was obtained gravimetrically and confirmed experimentally by GC/MS or HPLC.

The reported expanded uncertainty of measurement is stated as the standard uncertainty of measurement multiplied by the coverage factor $k = 2$, which for a normal distribution corresponds to a coverage probability of approximately 95%. The standard uncertainty of measurement has been determined in accordance with EA 4/02 and incorporates the uncertainties of the raw-material purity, the mass and the volume. Property of the result of a measurement whereby it can be related to stated references, usually national or international standards, through an unbroken chain of comparisons all having stated uncertainties (ISO VIM⁽⁴⁾). The metrological traceability is assured through gravimetric measurement and dissolving the certified reference material from accredited according to ISO/IEC 17025⁽⁵⁾ and/or ISO Guide 34⁽⁶⁾ laboratories/producers and traceable to SI.

The measurement results are traceable to SI. All analytical balances used for the preparation of the solution are calibrated yearly under an in-house procedure with class E1 and class E2 analytical weights, traceable to SI (DKD) and are daily checked.

Class A laboratory glassware are traceable to SI. The thermometers used for solution's

The results from temperature measurement are traceable to SI.

CPAchem Ltd is accredited to ISO Guide 34 and ISO/IEC 17025

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Hydrocarbon solutions

Hydrocarbons Standard Solution - 31 components

n-Decane (C10)	CAS:124-18-5	n-Docosane (C22)	CAS:629-97-0	n-Tritriacontane (C33)	CAS:630-05-7
n-Undecane (C11)	CAS:1120-21-4	n-Tricosane (C23)	CAS:638-67-5	n-Octadecane (C18)	CAS:593-45-3
n-Dodecane (C12)	CAS:112-40-3	n-Tetracosane (C24)	CAS:646-31-1	n-Tetraatriacontane (C34)	CAS:14167-59-0
n-Tridecane (C13)	CAS:629-50-5	n-Pentacosane (C25)	CAS:629-99-2	n-Pentatriacontane (C35)	CAS:630-07-9
n-Tetradecane (C14)	CAS:629-59-4	n-Hexacosane (C26)	CAS:630-01-3	n-Heptatriacontane (C37)	CAS:7194-84-5
n-Pentadecane (C15)	CAS:629-62-9	n-Octacosane (C28)	CAS:630-02-4	n-Nonatriacontane (C39)	CAS:7194-86-7
n-Hexadecane (C16)	CAS:544-76-3	n-Nonacosane (C29)	CAS:630-03-5	n-Hexatriacontane (C36)	CAS:630-06-8
n-Heptadecane (C17)	CAS:629-78-7	n-Triacontane (C30)	CAS:638-68-6	n-Octatriacontane (C38)	CAS:7194-85-6
n-Nonadecane (C19)	CAS:629-92-5	n-Hentriacontane (C31)	CAS:630-04-6	n-Tetracontane (C40)	CAS:4181-95-7
n-Eicosane (C20)	CAS:112-95-8	n-Dotriacontane (C32)	CAS:544-85-4		
n-Heneicosane (C21)	CAS:629-94-7	n-Heptacosane (C27)	CAS:593-49-7		

Solvent: n-Hexane**Volume:** ampoule 1 ml**Concentration (ug/ml):** 100**Ref.:** F112231

PAH Standards

PAH Mixture - 22 components

Naphthalene	CAS:91-20-3	Benzo(a)anthracene	CAS:56-55-3	Benzo(g,h,i)perylene	CAS: 191-24-2
Acenaphthylene	CAS:208-96-8	Chrysene	CAS:218-01-9	Dibenzo(a,h)anthracene	CAS:53-70-3
Acenaphthene	CAS:83-32-9	Benzo(b)fluoranthene	CAS:205-99-2	Dibenzo(a,i)pyrene	CAS:189-55-9
Fluorene	CAS:86-73-7	Benzo(k)fluoranthene	CAS:207-08-9	Dibenzo(a,l)pyrene	CAS:191-30-0
Phenanthrene	CAS:85-01-8	Benzo(a)pyrene	CAS:50-32-8	Dibenzo(a,e)pyrene	CAS:192-65-4
Anthracene	CAS:120-12-7	Benzo(e)pyrene	CAS:192-97-2	Dibenzo(a,h)pyrene	CAS:189-64-0
Fluoranthene	CAS:206-44-0	Perylene	CAS:198-55-0		
Pyrene	CAS:129-00-0	Indeno(1,2,3-c,d)pyrene	CAS:193-39-5		

Solvent: Dichloromethane**Volume:** ampoule 1 ml**Concentration (ug/ml):** 200**Ref.:** F872131

PAH Standard Solution - 16 components

Acenaphthene D10	CAS:15067-26-2	Benzo(g,h,i)perylene D12	CAS:93951-66-7	Indeno(1,2,3-c,d)pyrene D12	CAS:203578-33-0
Acenaphthylene D8	CAS:93951-97-4	Benzo(a)pyrene D12	CAS:63466-71-7	Naphthalene D8	CAS:1146-65-2
Anthracene D10	CAS:1719-06-8	Chrysene D12	CAS:1719-03-5	Phenanthrene D10	CAS:1517-22-2
Benzo(a)anthracene D12	CAS:1718-53-2	Dibenz(a,h)anthracene D14	CAS:13250-98-1	Pyrene D10	CAS:1718-52-1
Benzo(b)Fluoranthene D12	CAS:93951-98-5	Fluoranthene D10	CAS:93951-69-0		
Benzo(k)Fluoranthene D12	CAS:93952-01-3	Fluorene D10	CAS:81103-79-9		

Solvent: Cyclohexane**Volume:** ampoule 1 ml**Concentration (ug/ml):** 100**Ref.:** F112491

PAH Standard Solution - 18 components

Anthracene	CAS:120-12-7	Benzo(k)fluoranthene	CAS:207-08-9	Benzo(a)anthracene	CAS:56-55-3
Pyrene	CAS:129-00-0	Acenaphthylene	CAS:208-96-8	Acenaphthene	CAS:83-32-9
Benzo(g,h,i)perylene	CAS:191-24-2	Chrysene	CAS:218-01-9	Phenanthrene	CAS:85-01-8
Indeno(1,2,3-c,d)pyrene	CAS:193-39-5	2-Methyl-Fluoranthene	CAS:33543-31-6	Fluorene	CAS:86-73-7
Benzo(b)fluoranthene	CAS:205-99-2	Benzo(a)pyrene	CAS:50-32-8	Naphthalene	CAS:91-20-3
Fluoranthene	CAS:206-44-0	Dibenzo(a,h)anthracene	CAS:53-70-3	2-Methylnaphthalene	CAS:91-57-6

Solvent: Methanol**Volume:** ampoule 1 ml**Concentration (ug/ml):** 100**Ref.:** F112201

CPAchem's Most Popular Organic Mixtures

PAH Standard Solution - 16 components

Acenaphthene	CAS:83-32-9	Benzo(g,h,i)perylene	CAS:191-24-2	Indeno(1,2,3-c,d)pyrene	CAS:193-39-5
Acenaphthylene	CAS:208-96-8	Benzo(a)pyrene	CAS:50-32-8	Naphthalene	CAS:91-20-3
Anthracene	CAS:120-12-7	Chrysene	CAS:218-01-9	Phenanthrene	CAS:85-01-8
Benzo(a)anthracene	CAS:56-55-3	Dibenzo(a,h)anthracene	CAS:53-70-3	Pyrene	CAS:129-00-0
2,2'(b)fluoranthene	CAS:205-99-2	Fluoranthene	CAS:206-44-0		
Benzo(k)fluoranthene	CAS:207-08-9	Fluorene	CAS:86-73-7		

Solvent: Acetonitrile **Volume:** ampoule 1 ml **Concentration (ug/ml):** 2000 **Ref.:** F128611

PCB Mixtures

ISS PCB Mixture - 18 components

2,4,4'-Trichlorobiphenyl	CAS:7012-37-5	2,3,3',4',6-Pentachlorobiphenyl	CAS:38380-03-9	2,2',4,4',5,5'-Hexachlorobiphenyl	CAS:35065-27-1
2,2',5,5'-Tetrachlorobiphenyl	CAS:35693-99-3	2,3',4,4',5-Pentachlorobiphenyl	CAS:31508-00-6	2,2',3,3',4,4',5-Heptachlorobiphenyl	CAS:35065-30-6
2,2',3,5',6-Pentachlorobiphenyl	CAS:38379-99-6	2,2',3,4,4',5'-Hexachlorobiphenyl	CAS:35065-28-2	2,2',3,3',4',5,6-Heptachlorobiphenyl	CAS:52663-70-4
2,2',4,4',5-Pentachlorobiphenyl	CAS:38380-01-7	2,2',3,4',5,5'-Hexachlorobiphenyl	CAS:51908-16-8	2,2',3,4,4',5,5'-Heptachlorobiphenyl	CAS:35065-29-3
2,2',4,5,5'-Pentachlorobiphenyl	CAS:37680-73-2	2,2',3,4',5',6-Hexachlorobiphenyl	CAS:38380-04-0	2,2',3,4,4',5',6-Heptachlorobiphenyl	CAS:52663-69-1
2,3,3',4,4'-Pentachlorobiphenyl	CAS:32598-14-4	2,2',3,5,5',6-Hexachlorobiphenyl	CAS:52663-63-5	2,2',3,4',5,5',6-Heptachlorobiphenyl	CAS:52663-68-0

Solvent: Iso-octane **Volume:** ampoule 1 ml **Concentration (ug/ml):** 10 **Ref.:** F127881

PCBs Standard Solution - 12 components

PCB 77	CAS:32598-13-3	PCB 118	CAS:31508-00-6	PCB 157	CAS:69782-90-7
PCB 81	CAS:70362-50-4	PCB 123	CAS:65510-44-3	PCB 167	CAS:52663-72-6
PCB 105	CAS:32598-14-4	PCB 126	CAS:57465-28-8	PCB 169	CAS:32774-16-6
PCB 114	CAS:74472-37-0	PCB 156	CAS:38380-08-4	PCB 189	CAS:39635-31-9

Solvent: Iso-octane **Volume:** ampoule 1 ml **Concentration (ug/ml):** 10 **Ref.:** F127871

WHO/ISS PCB Mixture - 32 components

2,2',5-Trichlorobiphenyl	CAS:37680-65-2	2,3,3',4',6-Pentachlorobiphenyl	CAS:38380-03-9	2,3,3',4,4',5-Hexachlorobiphenyl	CAS:38380-08-4
2,4,4'-Trichlorobiphenyl	CAS:7012-37-5	2,3,4,4',5-Pentachlorobiphenyl	CAS:74472-37-0	2,3,3',4,4',5-Hexachlorobiphenyl	CAS:69782-90-7
2,4',5-Trichlorobiphenyl	CAS:16606-02-3	2,3',4,4',5-Pentachlorobiphenyl	CAS:31508-00-6	2,3',4,4',5,5'-Hexachlorobiphenyl	CAS:52663-72-6
2,2',3,5'-Tetrachlorobiphenyl	CAS:41464-39-5	2',3,4,4',5-Pentachlorobiphenyl	CAS:65510-44-3	3,3',4,4',5,5'-Hexachlorobiphenyl	CAS:32774-16-6
2,2',5,5'-Tetrachlorobiphenyl	CAS:35693-99-3	3,3',4,4',5-Pentachlorobiphenyl	CAS:57465-28-8	2,2',3,3',4,4',5-Heptachlorobiphenyl	CAS:35065-30-6
3,3',4,4'-Tetrachlorobiphenyl	CAS:32598-13-3	2,2',3,3',4,4'-Hexachlorobiphenyl	CAS:38380-07-3	2,2',3,3',4',5,6-Heptachlorobiphenyl	CAS:52663-70-4
3,4,4',5-Tetrachlorobiphenyl	CAS:70362-50-4	2,2',3,4,4',5'-Hexachlorobiphenyl	CAS:35065-28-2	2,2',3,4,4',5,5'-Heptachlorobiphenyl	CAS:35065-29-3
2,2',3,5',6-Pentachlorobiphenyl	CAS:38379-99-6	2,2',3,4',5,5'-Hexachlorobiphenyl	CAS:51908-16-8	2,2',3,4,4',5',6-Heptachlorobiphenyl	CAS:52663-69-1
2,2',4,4',5-Pentachlorobiphenyl	CAS:38380-01-7	2,2',3,4',5',6-Hexachlorobiphenyl	CAS:38380-04-0	2,2',3,4',5,5',6-Heptachlorobiphenyl	CAS:52663-68-0
2,2',4,5,5'-Pentachlorobiphenyl	CAS:37680-73-2	2,2',3,5,5',6-Hexachlorobiphenyl	CAS:52663-63-5	2,3,3',4,4',5,5'-Heptachlorobiphenyl	CAS:39635-31-9
2,3,3',4,4'-Pentachlorobiphenyl	CAS:32598-14-4	2,2',4,4',5,5'-Hexachlorobiphenyl	CAS:35065-27-1		

Solvent: Iso-octane **Volume:** ampoule 1 ml **Concentration (ug/ml):** 10 **Ref.:** F127891

Pesticide Standards

NCC Standard Solution - 17 components

Atrazine	CAS:1912-24-9	Hexazinone	CAS:51235-04-2	Monolinuron	CAS:1746-81-2
Atrazine-desethyl	CAS:6190-65-4	Isoproturon	CAS:34123-59-6	Propazine	CAS:139-40-2
Atrazine-desisopropyl	CAS:1007-28-9	Linuron	CAS:330-55-2	Sebuthylazine	CAS:7286-69-3
Chlortoluron	CAS:15545-48-9	Methabenzthiazuron	CAS:18691-97-9	Simazine (CAT)	CAS:122-34-9
Cyanazine	CAS:21725-46-2	Metobromuron	CAS:3060-89-7	Terbuthylazine	CAS:5915-41-3
Diuron	CAS:330-54-1	Metoxuron	CAS:19937-59-8		

Solvent: Acetonitrile **Volume:** ampoule 1 ml **Concentration (ug/ml):** 100 **Ref.:** F127651

Organochlorine Pesticide Mixture - 29 components

Alachlor	CAS:15972-60-8	delta-BHC	CAS:319-86-8	Etridiazole	CAS:2593-15-9
Aldrin	CAS:309-00-2	4,4'-DDT	CAS:50-29-3	Gamma-Chlordane	CAS:5103-74-2
cis-Chlordane	CAS:5103-71-9	4,4'-DDD (TDE)	CAS:72-54-8	Heptachlor	CAS:76-44-8
alpha-BHC	CAS:319-84-6	4,4'-DDE	CAS:72-55-9	Heptachlor-exo-epoxide	CAS:1024-57-3
Atrazine	CAS:1912-24-9	Dieldrin	CAS:60-57-1	Gamma-HCH (Lindane)	CAS:58-89-9
beta-BHC	CAS:319-85-7	Endosulfan-alpha	CAS:959-98-8	Methoxychlor (DMTD)	CAS:72-43-5
Chlorobenzilate	CAS:510-15-6	Endosulfan-beta	CAS:33213-65-9	trans-Nonachlor	CAS:39765-80-5
Chlorothalonil	CAS:1897-45-6	Endosulfan-total (sulfate)	CAS:1031-07-8	Permethrin	CAS:52645-53-1
Chloroneb	CAS:2675-77-6	Endrin	CAS:72-20-8	Simazine (CAT)	CAS:122-34-9
D CPA	CAS:1861-32-1	Endrin aldehyde	CAS:7421-93-4		

Solvent: Acetone **Volume:** ampoule 1 ml **Concentration (ug/ml):** 100 **Ref.:** F128751

Pesticide Mix - 17 components

Atrazine	CAS:1912-24-9	Isoproturon	CAS:34123-59-6	Metoxuron	CAS:19937-59-8
Chlortoluron	CAS:15545-48-9	Linuron	CAS:330-55-2	Monolinuron	CAS:1746-81-2
Cyanazine	CAS:21725-46-2	Metazachlor	CAS:67129-08-2	Sebuthylazine	CAS:7286-69-3
Atrazine-desethyl	CAS:6190-65-4	Methabenzthiazuron	CAS:18691-97-9	Simazine (CAT)	CAS:122-34-9
Diuron	CAS:330-54-1	Metobromuron	CAS:3060-89-7	Terbuthylazine	CAS:5915-41-3
Hexazinone	CAS:51235-04-2	Metolachlor	CAS:51218-45-2		

Solvent: Acetonitrile **Volume:** ampoule 1 ml **Concentration (ug/ml):** 10 **Ref.:** F129021

Standard Solution - 6 components

Diazinon	CAS:333-41-5	Malathion	CAS:121-75-5	Parathion-methyl	CAS:298-00-0
Ethion	CAS:563-12-2	Parathion	CAS:56-38-2	Chlorpyrifos	CAS:2921-88-2

Solvent: Methanol **Volume:** ampoule 1 ml **Concentration (ug/ml):** 100 **Ref.:** F127671

Standard Solution - 34 components

Alachlor	CAS:15972-60-8	Metazachlor	CAS:67129-08-2	Trifluralin	CAS:1582-09-8
Endosulfan-alpha	CAS:959-98-8	Oxadiazon	CAS:19666-30-9	Vinclozolin	CAS:50471-44-8
Endosulfan-beta	CAS:33213-65-9	Oxadixyl	CAS:77732-09-3	Atrazine	CAS:1912-24-9
Carbofuran	CAS:1563-66-2	Parathion	CAS:56-38-2	Atrazine-desethyl	CAS:6190-65-4
Deltamethrin	CAS:52918-63-5	Parathion-methyl	CAS:298-00-0	Terbuthylazine	CAS:5915-41-3
Terbuthylazine-desethyl	CAS:30125-63-4	Pendimethalin	CAS:40487-42-1	Propazine	CAS:139-40-2
Terbumeton-desethyl	CAS:30125-64-5	Prometryn	CAS:7287-19-6	Cyanazine	CAS:21725-46-2
Dimethenamid	CAS:87674-68-8	Sebuthylazine	CAS:7286-69-3	Atrazine-desisopropyl	CAS:1007-28-9
Dimethoate	CAS:60-51-5	Simazine (CAT)	CAS:122-34-9	Folpet	CAS:133-07-3
Ethofumesate	CAS:26225-79-6	Tebutam	CAS:35256-85-0	Metolachlor	CAS:51218-45-2
Fenpropimorph	CAS:67564-91-4	Terbumeton	CAS:33693-04-8		
Flusilazole	CAS:85509-19-9	Tri-allate	CAS:2303-17-5		

Solvent: Acetone **Volume:** ampoule 1 ml **Concentration (ug/ml):** 500 **Ref.:** F127621

CPAchem's Most Popular Organic Mixtures

Standard Solution - 54 components

Azinphos-ethyl	CAS:2642-71-9	Disulfoton	CAS:298-04-4	Metolachlor	CAS:51218-45-2
Azinphos-methyl	CAS:86-50-0	Epoxiconazole	CAS:106325-08-0	Oxadiazon	CAS:19666-30-9
Bromuconazole	CAS:116255-48-2	Esfenvalerate	CAS:66230-04-4	Paclobutrazol	CAS:76738-62-0
Bromophos-ethyl	CAS:4824-78-6	Ethion	CAS:563-12-2	Parathion	CAS:56-38-2
Bromophos-methyl	CAS:2104-96-3	Ethoprophos	CAS:13194-48-4	Parathion-methyl	CAS:298-00-0
Captan	CAS:133-06-2	Fenbuconazole	CAS:114369-43-6	Procymidone	CAS:32809-16-8
Chlorfenvinphos	CAS:470-90-6	Fenitrothion	CAS:122-14-5	Propetamphos	CAS:31218-83-4
Chlorothalonil	CAS:1897-45-6	Fenpropidin	CAS:67306-00-7	Propiconazole	CAS:60207-90-1
Chlorpyrifos	CAS:2921-88-2	Fenpropimorph	CAS:67564-91-4	Tebuconazole	CAS:107534-96-3
Chlorpyrifos methyl	CAS:5598-13-0	Fenthion	CAS:55-38-9	Terbufos	CAS:13071-79-9
Cypermethrin	CAS:52315-07-8	Fluquinconazole	CAS:136426-54-5	Triadimefon	CAS:43121-43-3
Cyprodinil	CAS:121552-61-2	Flurochloridone	CAS:61213-25-0	Tri-allate	CAS:2303-17-5
Deltamethrin	CAS:52918-63-5	Folpet	CAS:133-07-3	Trifluralin	CAS:1582-09-8
Diazinon	CAS:333-41-5	Formothion	CAS:2540-82-1	Etrimfos	CAS:38260-54-7
Dichlorvos	CAS:62-73-7	Hexaconazole	CAS:79983-71-4	Permethrin	CAS:52645-53-1
Difenoconazole	CAS:119446-68-3	lambda-Cyhalothrin	CAS:91465-08-6	Metconazole	CAS:125116-23-6
Diflufenican	CAS:83164-33-4	Malathion	CAS:121-75-5	Cyproconazole	CAS:113096-99-4
Dimethoate	CAS:60-51-5	Metazachlor	CAS:67129-08-2	Flusilazole	CAS:85509-19-9

Solvent: n-Hexane

Volume: ampoule 1 ml

Concentration (ug/ml): 1

Ref.: F127661

Triazine & Urea Pesticide Mixture - 29 components

Atrazine	CAS:1912-24-9	Terbutylazine-desethyl	CAS:30125-63-4	Terbutylazine	CAS:5915-41-3
Atrazine-desethyl	CAS:6190-65-4	Methabenzthiazuron	CAS:18691-97-9	Linuron	CAS:330-55-2
Atrazine-desisopropyl	CAS:1007-28-9	Chlortoluron	CAS:15545-48-9	Chloroxuron	CAS:1982-47-4
Metamitron	CAS:41394-05-2	Monolinuron	CAS:1746-81-2	Prometryn	CAS:7287-19-6
Chloridazon	CAS:1698-60-8	Diuron	CAS:330-54-1	Chlorpropham	CAS:101-21-3
Metoxuron	CAS:19937-59-8	Isoproturon	CAS:34123-59-6	Terbutryn	CAS:886-50-0
Carbetamide	CAS:16118-49-3	Metobromuron	CAS:3060-89-7	Metolachlor	CAS:51218-45-2
Bromacil	CAS:314-40-9	Metazachlor	CAS:67129-08-2	Ethofumesate	CAS:26225-79-6
Simazine (CAT)	CAS:122-34-9	Propazine	CAS:139-40-2	Ethidimuron	CAS:30043-49-3
Cyanazine	CAS:21725-46-2	Dimefuron	CAS:34205-21-5		

Solvent: Acetonitrile

Volume: ampoule 1 ml

Concentration (ug/ml): 100

Ref.: F128821

Volatile and Semi-volatile Mixtures

34 components; 200ug/ml

Bromochloromethane	CAS:74-97-5	1,1-Dichloroethane	CAS:75-34-3	Methylene chloride	CAS:75-09-2
Bromodichloromethane	CAS:75-27-4	1,2-Dichloroethane	CAS:107-06-2	1,1,1,2-Tetrachloroethane	CAS:630-20-6
Bromoform	CAS:75-25-2	1,1-Dichloroethene	CAS:75-35-4	1,1,2,2-Tetrachloroethane	CAS:79-34-5
Carbon tetrachloride	CAS:56-23-5	cis-1,2-Dichloroethene	CAS:156-59-2	Tetrachloroethene	CAS:127-18-4
Chloroethane	CAS:75-00-3	trans-1,2-Dichloroethene	CAS:156-60-5	1,1,1-Trichloroethane	CAS:71-55-6
Chloroform	CAS:67-66-3	1,2-Dichloropropane	CAS:78-87-5	1,1,2-Trichloroethane	CAS:79-00-5
Chloromethane	CAS:74-87-3	1,3-Dichloropropane	CAS:142-28-9	Trichloroethene	CAS:79-01-6
Dibromochloromethane	CAS:124-48-1	2,2-Dichloropropane	CAS:594-20-7	Trichlorofluoromethane	CAS:75-69-4
1,2-Dibromo-3-chloropropane	CAS:96-12-8	1,1-Dichloropropene	CAS:563-58-6	1,2,3-Trichloropropane	CAS:96-18-4
1,2-Dibromoethane	CAS:106-93-4	cis-1,3-Dichloropropene	CAS:10061-01-5	Vinyl chloride	CAS:75-01-4
Dibromomethane	CAS:74-95-3	trans-1,3-Dichloropropene	CAS:10061-02-6		
Dichlorodifluoromethane	CAS:75-71-8	Hexachlorobutadiene	CAS:87-68-3		

Solvent: Methanol

Volume: ampoule 1 ml

Concentration (ug/ml): 200

Ref.: F112991

CPAchem's Most Popular Organic Mixtures

Base/Neutrals Surrogate Standard Mixture - 3 components

2-Fluorobiphenyl	CAS:321-60-8	Nitrobenzene D5	CAS:4165-60-0	p-Terphenyl D14	CAS:1718-51-0
Solvent: Dichloromethane	Volume: ampoule 1 ml	Concentration (ug/ml): 1000	Ref.: F867791		

VOC Standard Solution - 47 components

Benzene	CAS:71-43-2	1,4-Dichlorobenzene	CAS:106-46-7	Naphthalene	CAS:91-20-3
Bromochloromethane	CAS:74-97-5	Dichlorodifluoromethane	CAS:75-71-8	Styrene	CAS:100-42-5
Bromodichloromethane	CAS:75-27-4	1,1-Dichloroethane	CAS:75-34-3	1,1,1,2-Tetrachloroethane	CAS:630-20-6
Bromoform	CAS:75-25-2	1,2-Dichloroethane	CAS:107-06-2	1,1,2,2-Tetrachloroethane	CAS:79-34-5
Bromomethane	CAS:74-83-9	1,1-Dichloroethene	CAS:75-35-4	Tetrachloroethene	CAS:127-18-4
Carbon tetrachloride	CAS:56-23-5	cis-1,2-Dichloroethene	CAS:156-59-2	Toluene	CAS:108-88-3
Chlorobenzene	CAS:108-90-7	trans-1,2-Dichloroethene	CAS:156-60-5	1,2,4-Trichlorobenzene	CAS:120-82-1
Chlorodibromomethane	CAS:124-48-1	1,2-Dichloropropane	CAS:78-87-5	1,1,1-Trichloroethane	CAS:71-55-6
Chloroethane	CAS:75-00-3	1,3-Dichloropropane	CAS:142-28-9	1,1,2-Trichloroethane	CAS:79-00-5
Chloroform	CAS:67-66-3	2,2-Dichloropropane	CAS:594-20-7	Trichloroethene	CAS:79-01-6
Chloromethane	CAS:74-87-3	cis-1,3-Dichloropropene	CAS:10061-01-5	Trichlorofluoromethane	CAS:75-69-4
1,2-Dibromo-3-chloropropane	CAS:96-12-8	trans-1,3-Dichloropropene	CAS:10061-02-6	1,2,3-Trichloropropane	CAS:96-18-4
1,2-Dibromoethane	CAS:106-93-4	Ethylbenzene	CAS:100-41-4	Vinylchloride	CAS:75-01-4
Dibromomethane	CAS:74-95-3	Hexachlorobutadiene	CAS:87-68-3	o-Xylene	CAS:95-47-6
1,2-Dichlorobenzene	CAS:95-50-1	Isopropylbenzene	CAS:98-82-8	m-Xylene	CAS:108-38-3
1,3-Dichlorobenzene	CAS:541-73-1	Methylene chloride	CAS:75-09-2	p-Xylene	CAS:106-42-3

Solvent: Methanol **Volume:** ampoule 1 ml **Concentration (ug/ml):** 200 **Ref.:** F119241

VOC Standard Solution - 59 components

Bromochloromethane	CAS:74-97-5	Styrene	CAS:100-42-5	Hexachlorobutadiene	CAS:87-68-3
Bromodichloromethane	CAS:75-27-4	Toluene	CAS:108-88-3	1,2,3-Trichloropropane	CAS:96-18-4
Bromoform	CAS:75-25-2	1,2,4-Trimethylbenzene	CAS:95-63-6	Benzene	CAS:71-43-2
Carbon tetrachloride	CAS:56-23-5	1,3,5-Trimethylbenzene	CAS:108-67-8	n-Butylbenzene	CAS:104-51-8
Chloroform	CAS:67-66-3	o-Xylene	CAS:95-47-6	sec-Butylbenzene	CAS:135-98-8
Dibromochloromethane	CAS:124-48-1	m-Xylene	CAS:108-38-3	tert-Butylbenzene	CAS:98-06-6
Dibromomethane	CAS:74-95-3	p-Xylene	CAS:106-42-3	Ethylbenzene	CAS:100-41-4
Methylene chloride	CAS:75-09-2	Bromobenzene	CAS:108-86-1	Isopropylbenzene	CAS:98-82-8
1,2-Dibromoethane	CAS:106-93-4	Chlorobenzene	CAS:108-90-7	4-Chlorotoluene	CAS:106-43-4
1,1-Dichloroethane	CAS:75-34-3	2-Chlorotoluene	CAS:95-49-8	1,2-Dichlorobenzene	CAS:95-50-1
1,2-Dichloroethane	CAS:107-06-2	1,1,1-Trichloroethane	CAS:71-55-6	1,3-Dichlorobenzene	CAS:541-73-1
1,1-Dichloroethene	CAS:75-35-4	1,1,2-Trichloroethane	CAS:79-00-5	1,4-Dichlorobenzene	CAS:106-46-7
cis-1,2-Dichloroethene	CAS:156-59-2	Trichloroethene	CAS:79-01-6	1,2,3-Trichlorobenzene	CAS:87-61-6
trans-1,2-Dichloroethene	CAS:156-60-5	1,2-Dibromo-3-chloropropane	CAS:96-12-8	1,2,4-Trichlorobenzene	CAS:120-82-1
1,1,1,2-Tetrachloroethane	CAS:630-20-6	1,2-Dichloropropane	CAS:78-87-5	Chloroethane	CAS:75-00-3
1,1,2,2-Tetrachloroethane	CAS:79-34-5	1,3-Dichloropropane	CAS:142-28-9	Chloromethane	CAS:74-87-3
Tetrachloroethene	CAS:127-18-4	2,2-Dichloropropane	CAS:594-20-7	Dichlorodifluoromethane	CAS:75-71-8
4-Isopropyltoluene	CAS:99-87-6	1,1-Dichloropropene	CAS:563-58-6	Trichlorofluoromethane	CAS:75-69-4
Naphthalene	CAS:91-20-3	cis-1,3-Dichloropropene	CAS:10061-01-5	Vinylchloride	CAS:75-01-4
n-Propylbenzene	CAS:103-65-1	trans-1,3-Dichloropropene	CAS:10061-02-6		

Solvent: Methanol **Volume:** ampoule 1 ml **Concentration (ug/ml):** 2000 **Ref.:** F112751A

CPAchem's Most Popular Organic Mixtures

VOC Standard Solution - 60 components

1,1,1,2-Tetrachloroethane	CAS:630-20-6	200 ug/ml	Dibromochloromethane	CAS:124-48-1	200 ug/ml
1,1,1-Trichloroethane	CAS:71-55-6	200 ug/ml	Dibromomethane	CAS:74-95-3	200 ug/ml
1,1,2,2-Tetrachloroethane	CAS:79-34-5	200 ug/ml	Dichloromethane	CAS:75-09-2	200 ug/ml
1,1,2-Trichloroethane	CAS:79-00-5	200 ug/ml	Hexachloroethane	CAS:67-72-1	200 ug/ml
1,1-Dichloropropene	CAS:563-58-6	200 ug/ml	Tetrachloroethene	CAS:127-18-4	200 ug/ml
1,1-Dichloroethane	CAS:75-34-3	200 ug/ml	Tetrachloromethane	CAS:56-23-5	200 ug/ml
1,1-Dichloroethene	CAS:75-35-4	200 ug/ml	Trichloroethene	CAS:79-01-6	200 ug/ml
1,2,3-Trichlorobenzene	CAS:87-61-6	200 ug/ml	Benzene	CAS:71-43-2	200 ug/ml
1,2,4-Trichlorobenzene	CAS:120-82-1	200 ug/ml	Ethylbenzene	CAS:100-41-4	200 ug/ml
1,2-Dibromo-3-chloropropane	CAS:96-12-8	200 ug/ml	Isopropylbenzene	CAS:98-82-8	200 ug/ml
1,2-Dibromoethane	CAS:106-93-4	200 ug/ml	o-Xylene	CAS:95-47-6	200 ug/ml
1,2-Dichlorobenzene	CAS:95-50-1	200 ug/ml	m-Xylene	CAS:108-38-3	200 ug/ml
1,2-Dichloroethane	CAS:107-06-2	200 ug/ml	p-Xylene	CAS:106-42-3	200 ug/ml
cis-1,2-Dichloroethene	CAS:156-59-2	200 ug/ml	Styrene	CAS:100-42-5	200 ug/ml
trans-1,2-Dichloroethene	CAS:156-60-5	200 ug/ml	Toluene	CAS:108-88-3	200 ug/ml
1,2-Dichloropropane	CAS:78-87-5	200 ug/ml	2,3-Dichloro-1-propene	CAS:78-88-6	200 ug/ml
1,3,5-Trichlorobenzene	CAS:108-70-3	200 ug/ml	n-Propylbenzene	CAS:103-65-1	200 ug/ml
1,3-Dichlorobenzene	CAS:541-73-1	200 ug/ml	tert-Butylbenzene	CAS:98-06-6	200 ug/ml
1,3-Dichloropropane	CAS:142-28-9	200 ug/ml	1,2,3-Trimethylbenzene	CAS:526-73-8	200 ug/ml
cis-1,3-Dichloropropene	CAS:10061-01-5	200 ug/ml	1,2,4-Trimethylbenzene	CAS:95-63-6	200 ug/ml
trans-1,3-Dichloropropene	CAS:10061-02-6	200 ug/ml	1,3,5-Trimethylbenzene	CAS:108-67-8	200 ug/ml
1,4-Dichlorobenzene	CAS:106-46-7	200 ug/ml	sec-Butylbenzene	CAS:135-98-8	200 ug/ml
Chloroprene	CAS:126-99-8	200 ug/ml	4-Isopropyltoluene	CAS:99-87-6	200 ug/ml
3-Chloropropene	CAS:107-05-1	200 ug/ml	2-Chlorotoluene	CAS:95-49-8	200 ug/ml
Bromochloromethane	CAS:74-97-5	200 ug/ml	3-Chlorotoluene	CAS:108-41-8	200 ug/ml
Bromodichloromethane	CAS:75-27-4	200 ug/ml	4-Chlorotoluene	CAS:106-43-4	200 ug/ml
Tribromomethane	CAS:75-25-2	200 ug/ml	n-Butylbenzene	CAS:104-51-8	200 ug/ml
Chlorobenzene	CAS:108-90-7	200 ug/ml	Bromobenzene	CAS:108-86-1	200 ug/ml
Vinylchloride	CAS:75-01-4	200 ug/ml	Naphthalene	CAS:91-20-3	200 ug/ml
Chloroform	CAS:67-66-3	200 ug/ml	Hexachloro-1,3-butadiene	CAS:87-68-3	50 ug/ml

Solvent: Methanol

Volume: ampoule 1 ml

Ref.: F127701

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Name: Tel.:

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Solvent: Number of components:

Volume per ampoule in ml: Number of ampoules:

Compound name	CAS number	Conc.	Compound name	CAS number	Conc.

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