

Certified Reference Materials for Volatile Organics Analysis



Maximum Compounds Means Minimum Mixtures

From our 2000 ppm 84 component VOC-84 CRM, to our 2000 ppm 54 component VOC-54 CRM, all of our VOC CRMs are designed to reduce the number of calibration standards needed in your laboratory. This simplifies preparation of working standards, reduces errors and saves money.

VOC Mix-84 (84 Components)

At specified concentrations (ug/mL) in P&T Methanol / H₂O (9:1)

Diisopropyl ether	2000	n-Butylbenzene	2000	Trichloroethylene	2000	Cyclohexane	2000
n-Propylbenzene	2000	Styrene	2000	Methylcyclohexane	2000	o-Xylene	2000
Acetonitrile	10000	Methyl acetate	2000	p-Xylene	2000	Acrylonitrile	10000
1,1,1,2-Tetrachloroethane	2000	sec-Butylbenzene	2000	Allyl chloride	2000	1,1-Dichloro-1-propene	2000
tert-Butylbenzene	2000	Carbon disulfide	2000	1,2,3-Trichlorobenzene	2000	Toluene	2000
2-Chloroethanol	2000	1,2,3-Trichloropropane	2000	1,1,1-Trichloroethane	2000	cis-1,4-Dichloro-2-butene	2000
1,2,4-Trichlorobenzene	2000	1,1,2,2-Tetrachloroethane	2000	trans-1,4-Dichloro-2-butene	2000	1,2,4-Trimethylbenzene	2000
1,1,2-Trichloroethane	2000	Diethyl ether	2000	1,2-Dibromo-3-chloropropane	2000	1,1-Dichloroethane	2000
1,4-Dioxane	10000	1,2-Dibromoethane	2000	1,1-Dichloroethylene	2000	Ethyl methacrylate	2000
1,3,5-Trimethylbenzene	2000	1,2-Dichlorobenzene	2000	Methyl iodide	2000	1,3-Dichloropropane	2000
1,2-Dichloroethane	2000	Isobutanol	10000	2,2-Dichloropropane	2000	1,2-Dichloropropane	2000
Methacrylonitrile	2000	2-Chlorotoluene	2000	1,3-Dichlorobenzene	2000	Methyl methacrylate	2000
4-Chlorotoluene	2000	1,4-Dichlorobenzene	2000	Nitrobenzene	2000	4-Isopropyltoluene	2000
Dichlorobromomethane	2000	2-Nitropropane	2000	Benzene	2000	Bromoform	2000
Propionitrile	2000	Bromobenzene	2000	Carbon tetrachloride	2000	Tetrahydrofuran	2000
Bromochloromethane	2000	Chlorobenzene	2000	1,1,2-Trichlorotrifluoroethane	2000	cis-1,2-Dichloroethylene	2000
Chloroform	2000	Methyl acrylate	2000	Dibromomethane	2000	cis-1,3-Dichloropropylene	2000
Methyl tert-butyl ether	2000	Ethylbenzene	2000	Chlorodibromomethane	2000	n-Hexane (C6)	2000
Hexachlorobutadiene	2000	Dichloromethane	2000	Methyl ethyl ketone	10000	Isopropylbenzene (Cumene)	2000
Tetrachloroethylene	2000	2-Hexanone	10000	m-Xylene	2000	trans-1,2-Dichloroethylene	2000
4-Methyl-2-pentanone	10000	Naphthalene	2000	trans-1,3-Dichloropropylene	2000	Acetone	10000

Part#: C-800 1.5 mL
 Part#: C-800P 4 x 1.5 mL
 Part#: C-800TP 10 x 1.5 mL

VOC Mix-54 (54 Components)

2000 ug/mL in PT Methanol

1,1,1,2-Tetrachloroethane	1,1,1-Trichloroethane	1,1,2,2-Tetrachloroethane	1,1,2-Trichloroethane
1,1-Dichloroethane	1,1-Dichloroethylene	1,1-Dichloropropylene	1,2,3-Trichlorobenzene
1,2,3-Trichloropropane	1,2,4-Trichlorobenzene	1,2,4-Trimethylbenzene	1,2-Dibromo-3-chloropropane
1,2-Dibromoethane	1,2-Dichlorobenzene	1,2-Dichloroethane	1,2-Dichloropropane
1,3,5-Trimethylbenzene	1,3-Dichlorobenzene	1,3-Dichloropropane	1,4-Dichlorobenzene
2,2-Dichloropropane	2-Chlorotoluene	4-Chlorotoluene	4-Isopropyltoluene
Benzene	Bromobenzene	Bromochloromethane	Bromoform
Carbon tetrachloride	Chlorobenzene	Chlorodibromomethane	Chloroform
cis-1,2-Dichloroethylene	cis-1,3-Dichloropropylene	Dibromomethane	Dichlorobromomethane
Dichloromethane	Ethylbenzene	Hexachlorobutadiene	Isopropyl benzene
m-Xylene	n-Butylbenzene	n-Propylbenzene	Naphthalene
o-Xylene	p-Xylene	sec-Butylbenzene	Styrene
tert-Butylbenzene	Tetrachloroethylene	Toluene	trans-1,2-Dichloroethylene
trans-1,3-Dichloropropylene	Trichloroethylene		

Part#: C-349H 1.5 mL
 Part#: C-349HP 4 x 1.5 mL
 Part#: C-349HTP 10 x 1.5 mL

VOC Mix-78 (78 Components)

2000 ug/mL in P&T Methanol

1,1,1,2-Tetrachloroethane	1,1,1-Trichloroethane	1,1,2,2-Tetrachloroethane	1,1,2-Trichloroethane
1,1,2-Trichlorotrifluoroethane	1,1-Dichloroethane	1,1-Dichloroethylene	1,1-Dichloropropylene
1,2,3-Trichlorobenzene	1,2,3-Trichloropropane	1,2,4-Trichlorobenzene	1,2,4-Trimethylbenzene
1,2-Dibromo-3-chloropropane	1,2-Dibromoethane	1,2-Dichlorobenzene	1,2-Dichloroethane
1,2-Dichloropropane	1,3,5-Trimethylbenzene	1,3-Dichlorobenzene	1,3-Dichloropropane
1,4-Dichlorobenzene	1,4-Dioxane	2,2-Dichloropropane	2-Chloroethanol
2-Chlorotoluene	2-Nitropropane	4-Chlorotoluene	4-Isopropyltoluene
Acetonitrile	Acrylonitrile	Allyl chloride	Benzene
Bromobenzene	Bromochloromethane	Bromoform	Carbon disulfide
Carbon tetrachloride	Chlorobenzene	Chlorodibromomethane	Chloroform
cis-1,2-Dichloroethylene	cis-1,3-Dichloropropylene	cis-1,4-Dichloro-2-butene	Cyclohexane
Dibromomethane	Dichlorobromomethane	Dichloromethane	Diethyl ether
Diisopropyl ether	Ethylbenzene	Ethyl methacrylate	Hexachlorobutadiene
Iodomethane	Isobutyl alcohol	Isopropyl benzene	m-Xylene
Methacrylonitrile	Methyl acetate	Methyl acrylate	Methyl cyclohexane
Methyl methacrylate	n-Butylbenzene	n-Propylbenzene	Naphthalene
Nitrobenzene	o-Xylene	p-Xylene	Propionitrile
sec-Butylbenzene	Styrene	tert-Butylbenzene	Tetrachloroethylene
Tetrahydrofuran	Toluene	trans-1,2-Dichloroethylene	trans-1,3-Dichloropropylene
trans-1,4-Dichloro-2-butene	Trichloroethylene		

Part#: C-700 1.5 mL

Part#: C-700P 4 x 1.5 mL

Part#: C-700TP 10 x 1.5 mL

VOC Mix-61 (61 Components)

1000 ug/mL in P&T Methanol

1,1,1,2-Tetrachloroethane	1,1,1-Trichloroethane	1,1,2,2-Tetrachloroethane	1,1,2-Trichloroethane
1,1-Dichloroethane	1,1-Dichloroethylene	1,1-Dichloropropylene	1,2,3-Trichlorobenzene
1,2,3-Trichloropropane	1,2,4-Trichlorobenzene	1,2,4-Trimethylbenzene	1,2-Dibromo-3-chloropropane
1,2-Dibromoethane	1,2-Dichlorobenzene	1,2-Dichloroethane	1,2-Dichloropropane
1,3,5-Trimethylbenzene	1,3-Dichlorobenzene	1,3-Dichloropropane	1,4-Dichlorobenzene
2,2-Dichloropropane	2-Chlorotoluene	4-Chlorotoluene	4-Isopropyltoluene
Benzene	Bromobenzene	Bromochloromethane	Bromoform
Carbon tetrachloride	Chlorobenzene	Chlorodibromomethane	Chloroethane
Chloroform	cis-1,2-Dichloroethylene	cis-1,3-Dichloropropylene	Dibromomethane
Dichlorobromomethane	Dichlorodifluoromethane	Dichloromethane	Ethylbenzene
Fluorotrichloromethane	Hexachlorobutadiene	Isopropyl benzene	m-Xylene
Methyl-tert-butyl ether	Methyl bromide	Methyl chloride	n-Butylbenzene
n-Propylbenzene	Naphthalene	o-Xylene	p-Xylene
sec-Butylbenzene	Styrene	tert-Butylbenzene	Tetrachloroethylene
Toluene	trans-1,2-Dichloroethylene	trans-1,3-Dichloropropylene	Trichloroethylene
Vinyl chloride			

Part#: C-350H 1.5 mL

Part#: C-350HP 4 x 1.5 mL

Part#: C-350HTP 10 x 1.5 mL

Gases Mix

2000 ug/mL in P&T Methanol

Chloroethane	Dichlorodifluoromethane
Fluorotrichloromethane	Methyl bromide
Methyl chloride	Vinyl chloride

Part#: C-303H 1.5 mL
Part#: C-303HP 4 x 1.5 mL
Part#: C-303HTP 10 x 1.5 mL

Ketones Mix

Acetone	2-Hexanone
Methyl ethyl ketone	4-Methyl-2-pentanone

2000 ug/mL in Methanol/Water (4:1)

Part#: C-109H 1.5 mL
Part#: C-109HP 4 x 1.5 mL
Part#: C-109HTP 10 x 1.5 mL

20000 ug/mL in Methanol/Water (4:1)

Part#: C-109HC 1.5 mL
Part#: C-109HCP 4 x 1.5 mL
Part#: C-109HCTP 10 x 1.5 mL

Catalog Number

Compound

Solvent

Conc (ug/mL)

1438	tert-Amyl alcohol	PT Methanol	10000
1218H	Ethanol	DI Water	10000
1220L	Methyl-tert-butyl ether	PT Methanol	2000
198	tert-Amyl ethyl ether	PT Methanol	2000
1246	Diisopropyl ether	PT Methanol	2000
1378	Ethyl-tert-butyl ether	PT Methanol	2000
1379L	tert-Amyl methyl ether	PT Methanol	2000
1321H	tert-Butanol	PT Methanol	50000
1217	Methanol	DI Water	10000
197H	2-Methyl-2-pentanol	PT Methanol	20000

8260B Surrogate Mix

2500 ug/mL in P&T Methanol

4-Bromofluorobenzene	Dibromofluoromethane
1,2-Dichloroethane-d4	Toluene-d8

Part#: C-440 1.5 mL
Part#: C-440P 4 x 1.5 mL
Part#: C-440TP 10 x 1.5 mL

Acrolein/Acrylonitrile Mix

Acrolein	Acrylonitrile
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2000 ug/mL in Reagent Water

Part#: C-610 1.5 mL
Part#: C-610P 4 x 1.5 mL

20000 ug/mL in Reagent Water

Part#: C-610H 1.5 mL
Part#: C-610HP 4 x 1.5 mL

Oxygenates Standard

At specified concentrations (ug/mL) in PT Methanol

tert-Amyl ethyl ether (TAEE)	2000
tert-Amyl methyl ether (TAME)	2000
tert-Butyl alcohol (TBA)	10000
Diisopropyl ether (DIPE)	2000
Ethyl-tert-butyl ether (ETBE)	2000
Methyl-tert-butyl ether (MTBE)	2000

Part#: C-752 1.5 mL
Part#: C-752P 4 x 1.5 mL
Part#: C-752TP 10 x 1.5 mL

8260B Internal Standards

2500 ug/mL in P&T Methanol

Chlorobenzene-d5	1,4-Dichlorobenzene-d4
Fluorobenzene	

Part#: C-441 1.5 mL
Part#: C-441P 4 x 1.5 mL
Part#: C-441TP 10 x 1.5 mL



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Certificate #: AR-1571



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Certificate #: AP-1693-1

GC/MS Tuning Standard

2000 ug/mL in P&T Methanol

4-Bromofluorobenzene

Part#: 233H 1.5 mL

Part#: 233HP 4 x 1.5 mL

Method 8260 Internal Standards

2500 ug/mL in P&T Methanol

Chlorobenzene-d5 1,4-Dichlorobenzene-d4

1,4-Difluorobenzene Pentafluorobenzene

Part#: C-307 1.5 mL

Part#: C-307P 4 x 1.5 mL

Part#: C-307TP 10 x 1.5 mL

Method 8260 Surrogates

2500 ug/mL in P&T Methanol

4-Bromofluorobenzene Dibromofluoromethane

Toluene-d8

Part#: C-311 1.5 mL

Part#: C-311P 4 x 1.5 mL

Part#: C-311TP 10 x 1.5 mL