



Matheson™ Calibration Products for Air Toxics Monitoring are designed to meet Method TO-14 Standards set forth by the US EPA. These mixes are blended by gravimetric blending techniques and are available at 1 ppm or 100 ppb concentration

for each analyte in VOC Free Nitrogen. Analytical results are verified by GCMS techniques. Mixes consisting of two components or multicomponents can be produced depending on your specific requirements.

### Toxi-MAT-14™ 40 Component Mixture for EPA Method TO-14

Benzene	cis-1,2-Dichloroethylene	Toluene
Benzyl chloride	1,2-Dichloropropane	1,2,4-Trichlorobenzene
Carbon tetrachloride	cis-1,3-Dichloropropene	1,1,1-Trichloroethane
Chlorobenzene	trans-1,3-Dichloropropene	1,1,2-Trichloroethane
Chloroform	1,2-Dichlorotetrafluoroethane	Trichloroethylene
1,2-Dibromoethane	Ethyl chloride	Trichlorofluoromethane
m-Dichlorobenzene	Ethylbenzene	1,1,2-Trichlorotrifluoroethane
o-Dichlorobenzene	Hexachloro-1,3-Butadiene	1,2,4-Trimethylbenzene
p-Dichlorobenzene	Methyl bromide	1,3,5-Trimethylbenzene
Dichlorodifluoromethane	Methyl chloride	Vinyl chloride
1,1-Dichloroethane	Methylene chloride	m-Xylene
1,2-Dichloroethane	Styrene	o-Xylene
1,1-Dichloroethylene	1,1,2,2-Tetrachloroethane	p-Xylene
	Tetrachloroethylene	Balance VOC Free Nitrogen

Available in 1 ppm and 100 ppb concentration. 12 month shelf-life

NOTE: Toxi-MAT™ 14 is a 40 Component Mixture containing Benzyl Chloride

Cylinder Size	Cylinder Pressure (psi)	Contents		1 ppm Item Code	100 ppb Item Code
		US	Metric		
6R	1,775	3.65 ft <sup>3</sup>	103L	G0819453	G0819553

#### Ordering Information

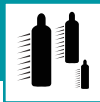
When ordering, use base code plus cylinder designation suffix for the appropriate cylinder type.

Ex: GMT10002TH is for Air Ultra Zero Certified in a MicroMAT™-58 Cylinder

Note: See Cylinder Specifications Chart on page 152 for description of cylinders.

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Don't see a product or cylinder size you need, call us to quote!



## Toxi-MAT-15™ Calibration Standard; 62 Minor Components

Acetone	cis-1,2-Dichloroethylene	2-Propanol
Benzene	trans-1,2-Dichloroethylene	Propylene
Benzyl chloride	1,2-Dichloropropane	Styrene
Bromoform	Cis-1,3-Dichloropropene	1,1,2,2-Tetrachloroethane
Bromodichloromethane	Trans-1,3-Dichloropropene	Tetra Chloroethylene
1,3-Butadiene	1,2-Dichlorotetrafluoroethane (Freon 114)	Tetrahydrofuran
2-Butanone (MEK)	1,4-Dioxane	Toluene
Carbon disulfide	Ethanol	1,2,4-Trichlorobenzene
Carbon tetrachloride	Ethyl acetate	1,1,1-Trichloroethane
Chlorobenzene	Ethyl chloride (Chloroethane)	1,1,2-Trichloroethane
Chloroform	Ethylbenzene	Trichloroethylene
Cyclohexane	4-Ethyltoluene (p-ethyltoluene)	Trichlorofluoromethane (Freon 11)
Dibromochloromethane	Heptane	1,1,2-Trichlorotrifluoroethane (Freon 113)
1,2-Dibromoethane (Ethylene dibromide)	Hexane	1,2,4-Trimethylbenzene
m-Dichlorobenzene (1,3)	2-Hexanone (MBK)	1,3,5-Trimethylbenzene
o-Dichlorobenzene (1,2)	Hexachloro-1,3-Butadiene(Hexachlorobutadiene)	Vinyl acetate
p-Dichlorobenzene (1,4)	4-Methyl-2-Pentanone (MIBK)	Vinyl chloride
Dichlorodifluoromethane (Freon 12)	Methyl bromide (Bromomethane)	m-Xylene
1,1-Dichloroethane	Methyl chloride (Chloromethane)	o-Xylene
1,2-Dichloroethane	Methylene chloride	p-Xylene
1,1-Dichloroethylene	MTBE	Balance VOC Free Nitrogen

Available in 1 ppm concentration. 6 month shelf-life

Cylinder Size	Cylinder Pressure (psi)	Contents		1 ppm Item Code
		US	Metric	
6R	1,775	3.65 ft <sup>3</sup>	103L	G2660004

## Toxi-MAT-15™ Subset Mixture for EPA Method TO-15

Acetonitrile	Methanol
Acrylonitrile	Methyl ethyl ketone (2-Butanone or MEK)
Benzyl Chloride	Methyl isobutyl ketone (4-Methyl-2-Pentanone or MIBK)
Bis(2-chloroethyl) ether	Methyl methacrylate
Bis(chloromethyl) ether	2,2,4-Trimethylpentane
1,3-Butadiene	2,3,4-Trimethylpentane
3-Chloroprene	Vinyl acetate
Ethyl acrylate	Vinyl bromide
Ethyl bromide	Balance VOC Free Nitrogen
Hexane	

Available in 1 ppm concentration. 12 month shelf-life.

Cylinder Size	Cylinder Pressure (psi)	Contents		1 ppm Item Code
		US	Metric	
6R	1,775	3.65 ft <sup>3</sup>	103L	G0820053

## Ordering Information

When ordering, use base code plus cylinder designation suffix for the appropriate cylinder type.  
Ex: GMT10002TH is for Air Ultra Zero Certified in a MicroMAT™-58 Cylinder

Note: See Cylinder Specifications Chart on page 152 for description of cylinders.

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## Calibration Products for Air Toxics Monitoring

### Aro-MAT™ Calibration Standard

Benzene	Ethylbenzene	m-Xylene
Chlorobenzene	Styrene	o-Xylene
m-Dichlorobenzene	1,2,4-Trichlorobenzene	p-Xylene
o-Dichlorobenzene	1,2,4-Trimethylbenzene	Balance VOC Free Nitrogen
p-Dichlorobenzene	1,3,5-Trimethylbenzene	

Cylinder Size	Cylinder Pressure (psi)	Contents		1 ppm Item Code	100 ppb Item Code
		US	Metric		
6R	1,775	3.65 ft <sup>3</sup>	103L	G0819653	G0819753

### Chloro-MAT™ Calibration Standard

Carbon Tetrachloride	cis-1,3-Dichloropropene	Tetrachloroethylene
Chloroform	trans-1,3-Dichloropropene	1,1,1-Trichloroethane
1,1-Dichloroethane	Ethyl chloride	1,1,2-Trichloroethane
1,2-Dichloroethane	hexachloro-1,3-butadiene	Trichloroethylene
1,1-Dichloroethylene	Methyl chloride	Vinyl chloride
cis-1,2-Dichloroethylene	Methylene chloride	Balance VOC Free Nitrogen
1,2-dichloropropane	1,1,2,2-Tetrachloroethane	

Cylinder Size	Cylinder Pressure (psi)	Contents		1 ppm Item Code	100 ppb Item Code
		US	Metric		
6R	1,775	3.65 ft <sup>3</sup>	103L	G0818053	G0818153

### Chromo-MAT-1™ Calibration Standard

Bromochloromethane	1,4-Difluorobenzene
4-Bromofluorobenzene	Balance VOC Free Nitrogen
Chlorobenzene-d5	

Cylinder Size	Cylinder Pressure (psi)	Contents		1 ppm Item Code	100 ppb Item Code
		US	Metric		
6R	1,775	3.65 ft <sup>3</sup>	103L	G0818453	G0818553

#### Ordering Information

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**Chromo-MAT-2™ Calibration Standard**

4-Bromofluorobenzene Balance VOC Free Nitrogen

Cylinder Size	Cylinder Pressure (psi)	Contents		1 ppm Item Code	100 ppb Item Code
		US	Metric		
6R	1,775	3.65 ft <sup>3</sup>	103L	G0818253	G0818353

**Chromo-MAT-3™ Calibration Standard**Bromochloromethane 1,4-Difluorobenzene  
Chlorobenzene-d5 Balance VOC Free Nitrogen

Cylinder Size	Cylinder Pressure (psi)	Contents		1 ppm Item Code	100 ppb Item Code
		US	Metric		
6R	1,775	3.65 ft <sup>3</sup>	103L	G0818653	G0818753

**Fluoro-MAT™ Calibration Standard**Dichlorodifluoromethane 1,2-Dichlorotetrafluoroethane  
Trichlorofluoromethane Balance VOC Free Nitrogen

Cylinder Size	Cylinder Pressure (psi)	Contents		1 ppm Item Code	100 ppb Item Code
		US	Metric		
6R	1,775	3.65 ft <sup>3</sup>	103L	G0819053	G0819153

**Ordering Information**

When ordering, use base code plus cylinder designation suffix for the appropriate cylinder type.  
Ex: GMT10002TH is for Air Ultra Zero Certified in a MicroMAT™-58 Cylinder

Note: See Cylinder Specifications Chart on page 152 for description of cylinders.