

Analytical data is only as good as the products and instruments used in the research. Gas management needs to be flawless when it comes to running gas chromatographs. Matheson is the specialty gas supplier that designs, engineers and manufactures both the specialty gas and gas delivery equipment critical to reliable operation of gas chromatographs. Our **Calibration Products for Laboratory Analysis** offer researchers and engineers portable solutions for GC support in the lab, plant or field.

How to find the Laboratory Analysis Calibration Products you need:

Our gas management products for GC work are offered as follows:

- Pure Gases
- Two Component Mixtures
- Multicomponent Mixtures

If you don't see your product listed, please call Matheson for more information!

Pure Gases

Product Description	Base Code	MicroMAT™/MiniMAT™ Cylinders						
		10	17	58	105	116	221	6R
Air Ultra Zero Certified	GMT10002			TH	TG			6R
Air Zero Gas	GMT10004	TK		TH	TG		TD	6R
Argon, Ultra High Purity	GMT10006	TK		TH	TG		TD	6R
n-Butane, CP	GMT10365		TB					
Carbon Dioxide, Bone Dry	GMT10055	TK		TH	TG		TD	6R
Ethane, CP	GMT10424		TB				6R	
Ethylene, CP	GMT10426		TB				6R	
Helium, Ultra High Purity	GMT10009	TK		TH	TG		TD	6R
Hydrogen, Ultra High Purity	GMT10013		TB				6R	
Isobutane, CP	GMT10427		TB				6R	
Methane, Ultra High Purity	GMT10017		TB				6R	
Nitrogen, Ultra High Purity	GMT10021		TB	TH	TG		TD	6R
Nitrogen Zero Gas	GMT10022	TK		TH	TG		TD	6R
Nitrous Oxide, CP	GMT10366							
Oxygen Zero Gas	GMT10024							
Propane, CP	GMT10367		TB					
Propylene, CP	GMT10425		TB					

⚠WARNING: This product can expose you to chemicals including Nitrous Oxide, which is known to the State of California to cause birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov.

Ordering Information

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

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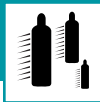
Two Component Mixtures

Product Description	Base Code	MicroMAT™/MiniMAT™ Cylinders						
		10	17	58	105	116	221	6R
Acetylene								
1 % Acetylene in Helium	GMT10303			TH				
1 % Acetylene in Nitrogen	GMT10304			TH				
Ammonia								
50 ppm Ammonia in Nitrogen	GMT10220			TH		TM		6R
Benzene								
1 ppm Benzene in Air	GMT10307	TK		TH	TG			6R
10 ppm Benzene in Air	GMT10306	TK		TH	TG			6R
100 ppm Benzene in Air	GMT10305	TK		TH	TG			6R
1,3-Butadiene								
10 ppm 1,3-Butadiene in Nitrogen	GMT10241			TH				6R
Carbon Dioxide								
100 ppm Carbon Dioxide in Helium	GMT10431	TK		TH	TG			6R
1000 ppm Carbon Dioxide in Helium	GMT10331	TK		TH	TG			6R
1 % Carbon Dioxide in Helium	GMT10308	TK		TH	TG			6R
10 % Carbon Dioxide in Helium	GMT10319	TK		TH	TG			6R
100 ppm Carbon Dioxide in Nitrogen	GMT10314	TK		TH	TG			6R
1000 ppm Carbon Dioxide in Nitrogen	GMT10313	TK		TH	TG			6R
1 % Carbon Dioxide in Nitrogen	GMT10309	TK		TH	TG			6R
Ethane								
1.5 % Ethane in Air	GMT10032	TK	TB	TH	TG		TD	6R
100 ppm Ethane in Helium	GMT10423	TK	TB	TH	TG		TD	6R
1000 ppm Ethane in Helium	GMT10422	TK	TB	TH	TG		TD	6R
1 % Ethane in Helium	GMT10421	TK	TB	TH	TG		TD	6R
Ethylene								
8-10 ppm Ethylene in Air	GMT10354	TK	TB	TH	TG		TD	6R
100 ppm Ethylene in Helium	GMT10325	TK	TB	TH	TG		TD	6R
1000 ppm Ethylene in Helium	GMT10333	TK	TB	TH	TG		TD	6R
8-10 ppm Ethylene in Nitrogen	GMT10322	TK	TB	TH	TG		TD	6R
1000 ppm Ethylene in Nitrogen	GMT10334	TK	TB	TH	TG		TD	6R
1 % Ethylene in Nitrogen	GMT10311	TK	TB	TH	TG		TD	6R
Hydrogen								
100 ppm Hydrogen in Helium	GMT10330		TB	TH	TG		TD	6R
100 ppm Hydrogen in Nitrogen	GMT10332	TK	TB	TH	TG		TD	6R
1000 ppm Hydrogen in Nitrogen	GMT10335	TK	TB	TH	TG		TD	6R
1 % Hydrogen in Nitrogen	GMT10328	TK	TB	TH	TG		TD	6R
Isobutane								
100 ppm Isobutane in Air	GMT10045	TK		TH	TG		6R	
Methane								
10 ppm Methane in Air	GMT10034	TK		TH	TG			6R
100 ppm Methane in Air	GMT10035	TK		TH	TG			6R
100 ppm Methane in Helium	GMT10337	TK		TH				
1000 ppm Methane in Helium	GMT10336	TK		TH				
1 % Methane in Helium	GMT10312	TK		TH				
10 % Methane in Helium	GMT10320	TK						
100 ppm Methane in Nitrogen	GMT10341	TK		TH				
1000 ppm Methane in Nitrogen	GMT10339	TK		TH				
1 % Methane in Nitrogen	GMT10338	TK		TH				
10 % Methane in Nitrogen	GMT10321	TK						

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Calibration Products for Laboratory Analysis

Two Component Mixtures (continued)

Product Description	Base Code	MicroMAT™/MiniMAT™ Cylinders						
		10	17	58	105	116	221	6R
Nitrogen								
100 ppm Nitrogen in Helium	GMT10343	TK		TH				
1000 ppm Nitrogen in Helium	GMT10340	TK		TH				
1 % Nitrogen in Helium	GMT10315	TK		TH				
Nitrous Oxide								
100 ppm Nitrous Oxide in Helium	GMT10345	TK		TH				
1 % Nitrous Oxide in Helium	GMT10316	TK		TH				
10 % Nitrous Oxide in Helium	GMT10323	TK		TH				
0.1 ppm Nitrous Oxide in Nitrogen	GMT10302			TH				
1 ppm Nitrous Oxide in Nitrogen	GMT10349	TK		TH				
100 ppm Nitrous Oxide in Nitrogen	GMT10346	TK		TH				
1000 ppm Nitrous Oxide in Nitrogen	GMT10342	TK		TH				
Oxygen								
100 ppm Oxygen in Helium	GMT10353	TK	TB	TH	TG		TD	6R
1 % Oxygen in Helium	GMT10317	TK	TB	TH	TG		TD	6R
10 % Oxygen in Helium	GMT10324	TK	TB	TH	TG		TD	6R
100 ppm Oxygen in Nitrogen	GMT10347	TK	TB	TH	TG		TD	6R
1 % Oxygen in Nitrogen	GMT10318	TK	TB	TH	TG		TD	6R
2 % Oxygen in Nitrogen	GMT10356	TK	TB	TH	TG		TD	6R
6 % Oxygen in Nitrogen	GMT10357	TK	TB	TH	TG		TD	6R
10 % Oxygen in Nitrogen	GMT10326	TK	TB	TH	TG		TD	6R
19 % Oxygen in Nitrogen	GMT10042	TK	TB	TH	TG		TD	6R
1,1,1-Trichloroethane								
10 ppm 1,1,1-Trichloroethane in Nitrogen	GMT10301			TH				6R
Trichloroethylene								
10 ppm Trichloroethylene in Nitrogen	GMT10359			TH				6R
Vinyl Chloride								
1 ppm Vinyl Chloride in Nitrogen	GMT10363			TH				6R
10 ppm Vinyl Chloride in Nitrogen	GMT10362			TH				6R
50 ppm Vinyl Chloride in Nitrogen	GMT10364			TH				6R
100 ppm Vinyl Chloride in Nitrogen	GMT10360			TH				6R
1000 ppm Vinyl Chloride in Nitrogen	GMT10361			TH				6R

⚠WARNING: This product can expose you to chemicals including Benzene, which is known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov.

⚠WARNING: This product can expose you to chemicals including 1,3-Butadiene, which is known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov.

⚠WARNING: This product can expose you to chemicals including Nitrous Oxide, which is known to the State of California to cause birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov.

⚠WARNING: This product can expose you to chemicals including Vinyl chloride, which is known to the State of California to cause cancer. For more information go to www.P65Warnings.ca.gov.

⚠WARNING: This product can expose you to chemicals including Trichloroethylene, which is known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov.

⚠WARNING: This product can expose you to chemicals including 1,1,2,2-Tetrachloroethane, which is known to the State of California to cause cancer. For more information go to www.P65Warnings.ca.gov.

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Calibration Products for Laboratory Analysis

Multicomponent Mixtures

Product Description	Base Code	MicroMAT™/MiniMAT™ Cylinders						
		10	17	58	105	116	221	6R
BTEX Mixtures in Nitrogen								
Benzene, Ethyl Benzene, Toluene, Xylene 1 ppm BTEX Mixture	GMT10231			TH				6R
10 ppm BTEX Mixture	GMT10417			TH				6R
100 ppb BTEX Mixture	GMT10232			TH				6R
C₂ to C₆ Alkyne in Nitrogen								
Acetylene, 1-Butyne, 2-Butyne, Propyne each at 15 ppm	GMT10412			TH				6R
Methane, Ethane, Ethylene, Acetylene, Propane, Propylene, Propyne, n-Butane in Nitrogen each at 15 ppm								
	GMT10415			TH				6R
n-Butane, Isobutane, cis-2-Butene, trans-2-Butene, 1-Butene, Isobutylene, 1,3-Butadiene, Ethyl Acetylene, in Nitrogen each at 15 ppm								
	GMT10416			TH				6R
2-Olefin Mixtures in Nitrogen								
cis-2-Butene, trans-2-Butene, cis-2-Pentene, trans-2-Pentene, cis-2-Hexene, trans-2-Hexene each at 15 ppm	GMT10351			TH				6R
C₂ to C₆ Olefin Mixtures in Helium								
Ethylene, Propylene, 1-Butene, 1-Pentene, 1-Hexene, each at 100 ppm	GMT10414			TH				6R
Ethylene, Propylene, 1-Butene, 1-Pentene, 1-Hexene, each at 1000 ppm	GMT10358			TH				6R
C₂ to C₆ Olefin Mixtures in Nitrogen								
Ethylene, Propylene, 1-Butene, 1-Pentene, 1-Hexene, each at 100 ppm	GMT10413			TH				6R
Ethylene, Propylene, 1-Butene, 1-Pentene, 1-Hexene, each at 1000 ppm	GMT10430			TH				6R
C₁ to C₆ n-Paraffins Mixtures in Helium								
Methane, Ethane, Propane, Butane, Pentane, Hexane each at 100 ppm	GMT10409			TH				6R
Methane, Ethane, Propane, Butane, Pentane, Hexane each at 1000 ppm	GMT10411			TH				6R
C₁ to C₆ n-Paraffins Mixtures in Nitrogen								
Methane, Ethane, Propane, Butane, Pentane, Hexane each at 15 ppm	GMT10408	TK	TB	TH	TG		TD	6R
Methane, Ethane, Propane, Butane, Pentane, Hexane each at 100 ppm	GMT10410	TK	TB	TH	TG		TD	6R
Methane, Ethane, Propane, Butane, Pentane, Hexane each at 1000 ppm	GMT10411	TK	TB	TH	TG		TD	6R
Branched Paraffins Mixtures in Nitrogen								
Isobutane, 2-Methylbutane, 2,2-Dimethylpropane, 2-Methylpentane, 3-Methylpentane, 2,2-Dimethylbutane each at 15 ppm	GMT10407			TH				6R
Carbon Monoxide, Carbon Dioxide in Nitrogen								
25 ppm Carbon Monoxide 1000 ppm Carbon Dioxide	GMT10053			TH				6R
Carbon Monoxide, Carbon Dioxide, Methane, Ethane, Ethylene, Acetylene in Nitrogen each at 1 %								
	GMT10402	TK	TB	TH	TG		TD	6R

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Multicomponent Mixtures (continued)

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		10	17	58	105	116	221	6R
Carbon Monoxide, Carbon Dioxide, Methane, Hydrogen, Oxygen in Nitrogen, each at 1 %	GMT10403	TK	TB	TH	TG		TD	6R
Carbon Dioxide, Carbon Monoxide, Nitrogen, Oxygen, Methane, Hydrogen in Helium 5 % Carbon Dioxide 5 % Carbon Monoxide 5 % Nitrogen 4 % Oxygen 4 % Methane 4 % Hydrogen	GMT10404		TB		TG			6R
Carbon Dioxide, Carbon Monoxide, Oxygen in Nitrogen 15 % Carbon Dioxide 7 % Carbon Monoxide 5 % Oxygen	GMT10348	TK	TB	TH	TG		TD	6R
Carbon Dioxide, Carbon Monoxide, Oxygen, Methane in Nitrogen 15 % Carbon Dioxide 7 % Carbon Monoxide 5 % Oxygen 4.5 % Methane	GMT10406	TK	TB	TH	TG		TD	6R
Carbon Dioxide, Carbon Monoxide, Oxygen, Hydrogen in Nitrogen, each at 0.5%	GMT10401	TK	TB	TH	TG		TD	6R
Carbon Dioxide, Carbon Monoxide, Oxygen, Hydrogen in Nitrogen 0.5 % Carbon Dioxide 0.5 % Carbon Monoxide 0.5 % Oxygen 5 % Hydrogen	GMT10428	TK	TB	TH	TG		TD	6R
Carbon Dioxide, Oxygen in Nitrogen 1 % Carbon Dioxide 1 % Oxygen	GMT10429	TK	TB	TH	TG		TD	6R
1 % Carbon Dioxide 2 % Oxygen	GMT10420	TK	TB	TH	TG		TD	6R
2 % Carbon Dioxide 24 % Oxygen	GMT10350	TK	TB	TH	TG		TD	6R
3 % Carbon Dioxide 17 % Oxygen	GMT10352	TK	TB	TH	TG		TD	6R

Matheson Portables™

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⚠WARNING: This product can expose you to chemicals including Ethylbenzene, which is known to the State of California to cause cancer. For more information go to www.P65Warnings.ca.gov.

⚠WARNING: This product can expose you to chemicals including Toluene, which is known to the State of California to cause birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov.

⚠WARNING: This product can expose you to chemicals including 1,3-Butadiene, which is known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov.

⚠WARNING: This product can expose you to chemicals including Carbon Monoxide, which is known to the State of California to cause birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov.

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