



TO-15/17 MIXTURE PROFILE

MATHESON offers a comprehensive list of standard TO-15 gas mixtures. In addition, MATHESON offers custom TO-15 mixtures with Customer defined minor components and concentrations.

Cylinder Specifications

Cylinder Size	Valve Outlet CGA No.	Pressure psig @ 70°F	Pressure kPa @ 21.1°C	Approximate Ship Weight lb	Approximate Ship Weight kg
1I	350	1,800	12,410	69	36
2I	350	1,800	12,410	48	22

62 Minor Component TO-15

• Acetone [67-64-1]	• 1,1-Dichloroethene [75-35-4]	• R-113* (1,1,2-trichlorotrifluoroethane) [76-13-1]
• Benzene [71-43-2]	• Cis-1,2-Dichloroethene [156-59-2]	• R-114* (1,2-dichlorotetrafluoroethane) [76-14-2]
• Benzyl chloride [100-44-7]	• Trans-1,2-Dichloroethene [156-60-5]	• Styrene [100-42-5]
• Bromoform [75-25-2]	• 1,2-Dichloropropane [78-87-5]	• 1,1,2,2-Tetrachloroethane [79-34-5]
• Bromomethane [74-83-9]	• Cis-1,3-Dichloropropene [10061-01-5]	• Tetrachloroethene [127-18-4]
• Bromodichloromethane [75-27-4]	• Trans-1,3-Dichloropropene [10061-02-6]	• Tetrahydrofuran [109-99-9]
• 1,3-Butadiene [106-99-0]	• 1,4-Dioxane [123-91-1]	• Toluene [108-88-3]
• 2-Butanone (MEK) [78-93-3]	• Ethanol [64-17-5]	• 1,1,1-Trichloroethane [71-55-6]
• Carbon disulfide [75-15-0]	• Ethyl acetate [141-78-6]	• 1,1,2-Trichloroethane [79-00-5]
• Carbon tetrachloride [56-23-5]	• Ethyl benzene [100-41-4]	• Trichloroethene [79-01-6]
• Chlorobenzene [108-90-7]	• 4-Ethyltoluene [622-96-8]	• 1,2,4-Trichlorobenzene [120-82-1]
• Chloroethane [75-00-3]	• Heptane [142-82-5]	• 1,2,4-Trimethylbenzene [95-63-6]
• Chloroform [67-66-3]	• Hexachloro-1,3-butadiene [87-68-3]	• 1,3,5-Trimethylbenzene [108-67-8]
• Cyclohexane [110-82-7]	• Hexane [110-54-3]	• Vinyl acetate [108-05-4]
• Chloromethane [74-87-3]	• 2-Hexanone (MBK) [591-78-6]	• Vinyl chloride [75-01-4]
• Dibromochloromethane [124-48-1]	• 4-Methyl-2-Pentanone (MIBK) [108-10-1]	• o-Xylene [95-47-6]
• 1,2-Dibromoethane [106-93-4]	• Methylene chloride [75-09-2]	• m-Xylene [108-38-3]
• 1,2-Dichlorobenzene [95-50-1]	• Methyl-tert-butylether (MTBE) [1634-04-4]	• p-Xylene [106-42-3]
• 1,3-Dichlorobenzene [541-73-1]	• 2-Propanol [67-63-0]	• Balance VOC Free Nitrogen
• 1,4-Dichlorobenzene [106-46-7]	• Propylene [115-07-1]	
• 1,1-Dichloroethane [75-34-3]	• R-11* (trichlorofluoromethane) [75-69-4]	
• 1,2-Dichloroethane [107-06-2]	• R-12* (dichlorodifluoromethane) [75-71-8]	

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1 ppm Mix Product Code	Cylinder Size	Content US	Content Metric	Equipment Recommendations	Model No.
62 Minor Component TO-15					
G2673778	1I	128 ft ³	3.64 m ³	For VOC < 1 ppm in 1I, 2I Cylinders ULTRA Line UHP Regulator	SEQ9303-350V2T
G2673779	2I	68 ft ³	2.40 m ³		
64 Minor Component TO-15					
Refer to the 62 Minor Component TO-15 PLUS Acrolein [107-02-8] and Methyl Methacrylate. [80-62-6].					
G0832068	1I	128 ft ³	3.64 m ³	For VOC ≥ 1 ppm in 1I, 2I Cylinders Miniature Regulator SS	SEQ3571-350-2T
G0832072	2I	68 ft ³	2.40 m ³		
65 Minor Component TO-15					
Refer to the 62 Minor Component TO-15 PLUS Acrolein [107-02-8], Methyl Methacrylate [80-62-6], and Naphthalene [91-20-3].					
NOTE: MATHESON limits the Naphthalene concentration to 0.5 ppm					
G0833068	1I	128 ft ³	3.64 m ³		
G0833072	2I	68 ft ³	2.40 m ³		

Please refer to MATHESON Brochure BR-201 for more information.

⚠ 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 Styrene, 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 p-Dichlorobenzene, 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 Ethylene Dibromide, 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.



TO-15/17 MIXTURE PROFILE *(continued)*

⚠ WARNING: This product can expose you to chemicals including Ethylene dichloride (1,2-Dichloroethane), 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 Methyl Isobutyl Ketone (MIBK), 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 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 Tetrachloroethylene (Perchloroethylene), 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 Carbon Tetrachloride, 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 Methyl-n-Butyl Ketone, 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 Chloroform, 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 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 Methyl Bromide, as a structural fumigant, 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 Methyl Chloride, 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 Chloroethane (Ethyl 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 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 Dichloromethane (Methylene 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 Carbon Disulfide, 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 Bromoform, 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 1,1-Dichloroethane, 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 Vinylidene Chloride (1,1-Dichloroethylene), 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 1,2-Dichloropropane, 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 Vinyl Trichloride (1,1,2-Trichloroethane), 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.

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