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.

### 62 Minor Component TO-15

- Acetone \([76-64-1]\)
- Benzene \([71-43-2]\)
- Benzy1 chloride \([100-44-7]\)
- Bromoform \([75-25-2]\)
- Bromomethane \([74-83-9]\)
- Bromodichloromethane \([75-27-4]\)
- 1,3-Butadiene \([106-99-0]\)
- 2-Butanone (MEK) \([78-93-4]\)
- Carbon disulfide \([75-15-0]\)
- Carbon tetrachloride \([56-23-5]\)
- Chlorobenzene \([108-90-7]\)
- Chloroethane \([75-00-3]\)
- Chloroform \([67-66-3]\)
- Cyclohexane \([110-82-7]\)
- Chloromethane \([74-87-3]\)
- Dibromochloromethane \([124-48-1]\)
- 1,2-Dibromoethane \([106-93-4]\)
- 1,2-Dichlorobenzene \([95-50-1]\)
- 1,3-Dichlorobenzene \([541-73-1]\)
- 1,4-Dichlorobenzene \([106-46-7]\)
- 1,1-Dichloroethane \([75-09-2]\)
- 1,2-Dichloroethane \([75-10-4]\)
- 1,1-Dichloroethene \([75-17-0]\)

*Trademark of duPont, Inc., or Chemours, Inc.*

### Cylinder Specifications

<table>
<thead>
<tr>
<th>Cylinder Size</th>
<th>Valve Outlet</th>
<th>Pressure psig @ 70°F</th>
<th>Pressure kPa @ 21.1°C</th>
<th>Approximate Ship Weight lb</th>
<th>Model No.</th>
</tr>
</thead>
<tbody>
<tr>
<td>10</td>
<td>CGA N O.</td>
<td></td>
<td></td>
<td></td>
<td>SEQ3571-350V2T</td>
</tr>
</tbody>
</table>

### Equipment Recommendations

- For VOC < 1 ppm in 11, 21 Cylinders
  - ULTRA Line UHP Regulator
  - Miniature Regulator SS

### 64 Minor Component TO-15

Refer to the 62 Minor Component TO-15 PLUS Acrolein \([107-02-8]\) and Methyl Methacrylate. \([80-62-6]\).

<table>
<thead>
<tr>
<th>Product Code</th>
<th>Cylinder Size</th>
<th>Content US</th>
<th>Content Metric</th>
</tr>
</thead>
<tbody>
<tr>
<td>G0832068</td>
<td>11</td>
<td>128 ft³</td>
<td>3.64 m³</td>
</tr>
<tr>
<td>G0832072</td>
<td>21</td>
<td>68 ft³</td>
<td>2.40 m³</td>
</tr>
</tbody>
</table>

### 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*

<table>
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</tbody>
</table>

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.

www.mathesongas.com
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.