Acetylene C₂H₂
Synonym: Ethyne

Physical Constants of Gas
Molecular Weight ........................................... 26.038
Specific Volume ........................................... 14.7 CF/lb. (0.91 m³/kg)
Boiling Point ................................................ -103°F (-75°C) 10 psig
Gas Density 70°F 1 atm .................................. 1.171 kg/m³
Cylinder Data
CGA Valve Outlet ............... 410 (Canada Only), 510

Shipping Data
Shipping Class ........................................... 70
DOT/TC Name ......................... Acetylene, Dissolved
DOT/TC Class .............................. 2.1 (Flammable Gas)
WHMIS Class ................................. AB1F
DOT Label ................................. Flammable Gas
UN No./IATA No. ....................... UN1001

Safety Information
Flammable gas.
Flammability limits: lower 2.5%; upper 80%.
Acetylene decomposes at high-pressure.
Do not discharge at pressures ≥ 15 psig.
Do not use if cylinder pressure is ≤ 80 psig to avoid acetone contamination of process stream.
An inline flash arrester is recommended for this product to prevent flash back in lines.
Caution: may form explosive compounds with certain metals like copper, mercury or silver.

Specifications

<table>
<thead>
<tr>
<th>Grade</th>
<th>Purity (Minimum)</th>
<th>Size</th>
<th>Contents</th>
<th>Pressure</th>
<th>Weight</th>
<th>Description</th>
<th>Model Number</th>
<th>Page</th>
</tr>
</thead>
<tbody>
<tr>
<td>ALPHAGAZ 1</td>
<td>99.6% N₂ &lt; 0.4%</td>
<td>70</td>
<td>330</td>
<td>9</td>
<td>250</td>
<td>17</td>
<td>227</td>
<td>103</td>
</tr>
<tr>
<td>Electronic Grade 2**</td>
<td>99.6%</td>
<td>70</td>
<td>330</td>
<td>9</td>
<td>250</td>
<td>17</td>
<td>227</td>
<td>103</td>
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<tr>
<td>Electronic Grade 1**</td>
<td>99.6%</td>
<td>70</td>
<td>330</td>
<td>9</td>
<td>250</td>
<td>17</td>
<td>227</td>
<td>103</td>
</tr>
</tbody>
</table>

* Specify CGA. Other cylinder connections are also available – please contact your Air Liquide representative.
** Excluding acetone.

Our SCOTT™ gas delivery equipment is guaranteed to preserve the purity and integrity of your gas. See page 261.