Hydrogen Sulfide $\text{H}_2\text{S}$

Synonyms: Dihydrogen Sulfide, Hydrosulfuric Acid, Sulfuretted Hydrogen

Physical Constants of Gas
- Molecular Weight: 34.08
- Specific Volume: 11.23 CF/lb (0.69 m$^3$/kg)
- Boiling Point: -76.4°F (-60.2°C) at 1 atm
- Gas Density 70°F 1 atm: 1.45 kg/m$^3$

Cylinder Data
- CGA Valve Outlet: 330, 722
- LB CGA Outlet: 110

Shipping Data
- Shipping Class: 175
- DOT/TC Name: Hydrogen Sulfide
- DOT Class: 2.3 (Poisonous Gas) Hazard Zone B
- TC Class: 2.3 (2.1) Toxic Gas (Flammable Gas)
- WHMIS Class: AB1D1A2B
- DOT Label: Poison Gas, Flammable
- CAS Registry No.: 7783-06-4
- UN No./IATA No.: UN1053

Safety Information
- Poisonous and flammable gas.
- Flammability limits: lower 4.3%; upper 46%.
- Can form explosive mixture with air.
- May cause respiratory tract and central nervous system damage.
- Can cause eye irritation.
- Gas deadens sense of smell. Symptoms of exposure may be delayed.
- May be fatal if inhaled.

Specifications

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<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>
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<tbody>
<tr>
<td>CHEMGAZ 1</td>
<td>99.5%</td>
<td>44</td>
<td>60</td>
<td>27</td>
<td>193</td>
<td>Single-Stage Liquid Phase</td>
<td>Q1-217A-330</td>
<td>272</td>
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<tr>
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<td>Liquid Phase</td>
<td>LB*</td>
<td>0.5</td>
<td>0.2</td>
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<td>Tied-Diaphragm Regulator</td>
<td>Q1-220AS-110</td>
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<td></td>
<td>Cross Purge Assembly</td>
<td>Q4-P74-330</td>
<td>339</td>
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* Please contact your Air Liquide representative for availability.

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