2,2-Dimethylpropane (Syn: Neopentane)

**CAS #:** 463-82-1  
**Item #:** 2143.90

**DESCRIPTION:** 2,2-Dimethylpropane is a colorless, flammable gas at room temperature and atmospheric pressure.

**USES:** Specialty gas mixtures, Organic synthesis and Instrument calibration

**TYPICAL PHYSICAL & CHEMICAL PROPERTIES:**
- **Purity:** >99%
- **Density @ Saturation pressure @ 25°C:** 0.5851 kg/l
- **Vapor Pressure @ 21.1°C:** 21.7 psia
- **Boiling Point @ 101.325 kPa:** 9.5°C
- **Melting Point:** -16.6°C
- **Viscosity, Gas @101.325 kPa @ 20°C:** 0.00700 cp
- **Odor:** Characteristic

**TYPICAL IMPURITIES:** Propane

**TOXICITY:** 2,2-Dimethylpropane has some degree of anesthetic activity in humans, and is mildly irritating to mucous membranes. It can act as a simple asphyxiant.

**SHIPPING CLASS:** UN2044 Flammable Gas

<table>
<thead>
<tr>
<th>Cylinder Size</th>
<th>Volume (Kg)</th>
<th>CGA with diptube (liquid withdraw)</th>
<th>CGA without diptube (vapor withdraw)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Lecture Bottle</td>
<td>.250</td>
<td>n/a</td>
<td>CGA 180</td>
</tr>
<tr>
<td>5 lb</td>
<td>up to 2.2</td>
<td>CGA 510</td>
<td>CGA 555</td>
</tr>
<tr>
<td>11 lb</td>
<td>up to 5.0</td>
<td>CGA 510</td>
<td>CGA 555</td>
</tr>
<tr>
<td>20 lb</td>
<td>up to 9.0</td>
<td>CGA 510</td>
<td>CGA 555</td>
</tr>
<tr>
<td>60 lb</td>
<td>up to 27.0</td>
<td>CGA 510</td>
<td>CGA 555</td>
</tr>
<tr>
<td>100 lb</td>
<td>up to 45.0</td>
<td>CGA 510</td>
<td>CGA 555</td>
</tr>
</tbody>
</table>

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1 Matheson Gas Data Book