2,2-Dimethylpropane (Syn: Neopentane)

**CAS #** [463-82-1]  
**Product #** 315206

**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:** 99.0% minimum
- **Molecular Formula:** C₅H₁₂
- **Molecular Weight:** 72.17
- **Density @ Saturation Pressure @ 25°C:** 0.5851kg/l
- **Vapor Pressure @ 21.1°C:** 21.7 psia
- **Boiling Point @ 101.325 kPa:** 9.5°C
- **Melting Point:** -16.6°C
- **Odor:** characteristic

**TYPICAL IMPURITIES:** n-Butane, isobutane, cyclobutane

**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. A Safety Data Sheet is available upon request.

**SHIPPING CLASS:** UN2044 2,2-Dimethylpropane, 2.1

<table>
<thead>
<tr>
<th>Cylinder Model/Size</th>
<th>Standard Package Size (Kg)</th>
<th>CGA with diptube (liquid withdrawal)</th>
<th>CGA without diptube (vapor withdrawal)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Lecture Bottle</td>
<td>0.225</td>
<td>n/a</td>
<td>CGA 180</td>
</tr>
<tr>
<td>5 lb</td>
<td>2.5</td>
<td>CGA 510</td>
<td>CGA 510</td>
</tr>
<tr>
<td>11 lb</td>
<td>5.0</td>
<td>CGA 510</td>
<td>CGA 510</td>
</tr>
<tr>
<td>20 lb</td>
<td>10.0</td>
<td>CGA 510</td>
<td>CGA 510</td>
</tr>
<tr>
<td>100 lb</td>
<td>50.0</td>
<td>CGA 510</td>
<td>CGA 510</td>
</tr>
<tr>
<td>420 lb</td>
<td>220.0</td>
<td>CGA 510</td>
<td>CGA 510</td>
</tr>
</tbody>
</table>

The information contained herein is typical of this grade of product. We accept no responsibility for the results obtained by the application of this information or for the safety and suitability of this product in any particular use. Users are advised to make their own tests to determine the suitability of this product for their own purposes. No warrantee is expressed or implied and buyers assume all responsibility and liability for loss or damage arising from the use of this information or handling and use of this product.

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1 Matheson Gas Data Book

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