# 1,3-Butadiene

## Description
### Synonym:
Divinyl, Vinylethylene, Biethylene

### Formula:
\( \text{C}_4\text{H}_6 \)

## Gas Data
### Molecular Weight:
54.09

### Density:
- 2.3 kg/m³ @ 21.1°C, 101.325 kPa
- 14.696 psia

### Specific Volume:
- 0.43 m³/kg @ 21.1°C, 101.325 kPa
- 6.9 ft³/lb @ 70°F, 14.696 psia

## Safety Information
### LFL in Air:
2%

### UFL in Air:
12%

### Permissible Exposure Limit (TLV):
2 ppm

## Shipping Information
### CAS Registry Number:
106-99-0

### UN Number:
UN 1010

### ECCN Number:
1C982

### DOT Proper Shipping Name:
Butadienes, Inhibited

### DOT Classification:
2.1 (Flammable Gas)

### DOT Label:
FLAMMABLE GAS

### TC Shipping Name:
Butadienes, Inhibited

### TC Classification:
2.1

### TC Label:
FLAMMABLE GAS

## Cylinder Specifications

<table>
<thead>
<tr>
<th>Cylinder Size</th>
<th>Valve Outlet</th>
<th>Pressure @ 70°F</th>
<th>Pressure kPa @ 21.1°C</th>
<th>Ship Weight lb</th>
<th>Ship Weight kg</th>
</tr>
</thead>
<tbody>
<tr>
<td>2</td>
<td>510</td>
<td>21</td>
<td>147</td>
<td>91</td>
<td>41</td>
</tr>
<tr>
<td>3</td>
<td>510</td>
<td>21</td>
<td>147</td>
<td>46</td>
<td>21</td>
</tr>
<tr>
<td>LB</td>
<td>170</td>
<td>21</td>
<td>147</td>
<td>6</td>
<td>3</td>
</tr>
</tbody>
</table>

## Gas Grade Purity Specifications

<table>
<thead>
<tr>
<th>Product Code</th>
<th>Cylinder Size</th>
<th>US Content</th>
<th>Metric Content</th>
</tr>
</thead>
<tbody>
<tr>
<td>G1311140</td>
<td>2</td>
<td>17 lb</td>
<td>7.71 kg</td>
</tr>
<tr>
<td>G1311150</td>
<td>3</td>
<td>7 lb</td>
<td>3.18 kg</td>
</tr>
<tr>
<td>G1311175</td>
<td>LB</td>
<td>0.375 lb</td>
<td>170 gm</td>
</tr>
</tbody>
</table>

Liquid phase, weight/weight%.
A Certificate of Conformance will be provided on request.
By request, all except LB can be furnished with full length eductor tubes for liquid withdrawal.
Please inquire for impurity specifications.
*Except LB

**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.