



## 1,3-Butadiene

**Description**

Synonym: Divinyl, Vinylethylene, Biethylene  
 Formula: C<sub>4</sub>H<sub>6</sub>

**Gas Data**

Molecular Weight: 54.09  
 Density: 2.3 kg/m<sup>3</sup> @ 21.1°C, 101.325 kPa  
 0.14 lb/ft<sup>3</sup> @ 70°F, 14.696 psia  
 Specific Volume: 0.43 m<sup>3</sup>/kg @ 21.1°C, 101.325 kPa  
 6.9 ft<sup>3</sup>/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**

Cylinder Size	Valve Outlet CGA No.	Pressure		Approximate Ship Weight	
		psig @ 70°F	kPa @ 21.1°C	lb	kg
2	510	21	147	91	41
3	510	21	147	46	21
LB	170	21	147	6	3

Gas Grade Purity Specifications	Product Code	Cylinder Size	Content		Equipment Recommendations	Model No.	Page No.
			US	Metric			
1,3-Butadiene, CP Grade 99%	G1311140	2	17 lb	7.71 kg	Single Stage Reg. Tee Purge LB Regulator Personal Monitor Detector Tube Outlet Plug Wrench	Series 18-510	292
	G1311150	3	7 lb	3.18 kg			4753-510
	G1311175	LB	0.375 lb	170 gm		Series 3320-170	302
				IQ250		398	
				8014-168SC		391	
				TW-4*		430	

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