

# 1,3-Butadiene C<sub>4</sub>H<sub>6</sub>

Synonyms: Biethylene, Buta-1,3-Diene

### Physical Constants of Gas

Molecular Weight ..... 54.092  
 Specific Volume ..... 7 CF/lb. (0.43 m<sup>3</sup>/kg)  
 Boiling Point ..... 24.046°F (-4.42°C) 1 atm  
 Gas Density 70°F 1 atm ..... 2.36 kg/m<sup>3</sup>

### Cylinder Data

CGA Valve Outlet ..... 510  
 LB CGA Outlet ..... 110, 170

### Shipping Data

Shipping Class ..... 70  
 DOT Name ..... 1,3-Butadiene  
 TC Name ..... Butadienes, Stabilized  
 DOT/TC Class ..... 2.1 (Flammable Gas)  
 WHMIS Class ..... AB1D2AF  
 DOT Label ..... Flammable Gas  
 CAS Registry No. .... 106-99-0  
 UN No./ATA No. .... UN1010

### Safety Information

Flammable gas.  
 Flammability limits: lower 2%; upper 11.5%.  
 Suspected human carcinogen.

Specifications									Recommended Equipment		
Grade	Purity (Minimum)	Size	Contents		Pressure		Weight		Description Model Number	Page	
			lbs.	kg	psig	bar	lbs.	kg			
CHEMGAZ 1	99% Liquid Phase	108*	133	60	21	2	206	93	Single-Stage Regulator Q1-205A-4G-510 LB Regulator Q1-20BS-170 LB Control Valve Q1-30B	269	
		22LP	27	12	2	2	83	37			294
		LB	0.4	0.2	21	2	6	3			332

\* Can be furnished with a full-length eductor tube and helium pressure pad upon request.

Air Liquide also manufactures liquid and vapor phase calibration standards in a 1,3-Butadiene balance for analysis of trace impurities in hydrocarbon process streams. Please contact your Air Liquide representative for more information.

Need advice on SCOTT™ equipment to safely deliver gas to your point-of-use? Call our Solutions Center at 800.217.2688.