

1,3-Butadiene C₄H₆

Synonyms: Biethylene, Buta-1,3-Diene

Physical Constants of Gas

Molecular Weight 54.092
 Specific Volume 7 CF/lb. (0.43 m³/kg)
 Boiling Point 24.046°F (-4.42°C) 1 atm
 Gas Density 70°F 1 atm 2.36 kg/m³

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	269
		22LP	27	12	2	2	83	37	Q1-205A-4G-510	
		LB	0.4	0.2	21	2	6	3	LB Regulator Q1-20BS-170	
									LB Control Valve Q1-30B	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.