

Propane C₃H₈

Synonyms: Dimethylmethane, Refrigerant R290

Physical Constants of Gas

Molecular Weight 44.10
 Specific Volume 8.7 CF/lb. (0.54 m³/kg)
 Boiling Point -43.67°F (-42.04°C) 1 atm
 Gas Density 70°F 1 atm 1.91 kg/m³

Cylinder Data

CGA Valve Outlet 510
 LB CGA Outlet 110, 170

Shipping Data

Shipping Class 70
 DOT/TC Name Propane
 DOT/TC Class 2.1 (Flammable Gas)
 WHMIS Class AB1
 DOT Label Flammable Gas
 CAS Registry No. 74-98-6
 UN No./ATA No. UN1978

Safety Information

Flammable liquid and gas.
 Flammability limits: lower 2.1%; upper 9.5%.
 Can form explosive mixture with air.
 May cause frostbite.

Specifications									Recommended Equipment	
Grade	Purity (Minimum)	Size	Contents		Pressure		Weight		Description Model Number	Page
			lbs.	kg	psig	bar	lbs.	kg		
CHEMGAZ 2 H ₂ O < 2 ppm N ₂ < 2 ppm* O ₂ < 2 ppm	99.9% Liquid Phase	108*	95	43	110	8	169	77	Two-Stage Regulator	
		22LP	20	9	110	8	41	19	Q1-14A-510	296
		LB	0.3	0.1	110	8	4	2	Single-Stage Regulator	
CHEMGAZ 1 H ₂ O < 3 ppm	99.5% Liquid Phase	108*	95	43	110	8	169	77	Single-Stage Regulator	
		22LP	20	9	110	8	41	19	Q1-205A-4G-510	269
		LB	0.3	0.1	110	8	4	2	Q1-202B-510	268
								LB Regulator		
								Q1-20BS-170	294	
								LB Control Valve		
								Q1-30B	332	

* Can be furnished with a full-length eductor tube.

Air Liquide also manufactures liquid and vapor calibration standards in a propane balance for analysis of trace impurities in hydrocarbon process streams. Contact your Air Liquide representative for more information.

Our SCOTT™ gas delivery equipment is guaranteed to preserve the purity and integrity of your gas. See page 261.