

Ethylene C₂H₄

Synonym: Ethene

Physical Constants of Gas

Molecular Weight 28.054
 Specific Volume 13.7 CF/lb. (0.86 m³/kg)
 Boiling Point -154.8°F (-103.8°C) 1 atm
 Gas Density 70°F 1 atm 1.178 kg/m³

Cylinder Data

CGA Valve Outlet 350, 724
 LB CGA Outlet 110, 170

Shipping Data

Shipping Class 70
 DOT Name Ethylene
 TC Name Ethylene, Compressed
 DOT/TC Class 2.1 (Flammable Gas)
 WHMIS Class AB1
 DOT Label Flammable Gas
 CAS Registry No. 74-85-1
 UN No./ATA No. UN1962

Safety Information

Flammable high-pressure gas.
 Flammability limits: lower 3%; upper 34%.
 Can form explosive mixture with air.
 Do not use for medical applications.
 May cause frostbite.

Specifications									Recommended Equipment	
Grade	Purity (Minimum)	Size	Contents		Pressure		Weight		Description Model Number	Page
			lbs.	kg	psig	bar	lbs.	kg		
CHEMGAZ 3	99.99%	49	37	17	1200	83	180	82	Two-Stage Regulator Q1-318B-350 Q1-14C-350	270 275
		44	30	14	1200	83	142	65		
		LBX	0.3	0.3	1200	83	5	2		
CHEMGAZ 2	99.96%	49	37	17	1200	83	180	82	Two-Stage Regulator Q1-318B-350 Q1-14C-350 LB Regulator Q1-20B-170	270 275 294
		49 x 16	592	268	1200	83	3188	1445		
		44	30	14	1200	83	142	65		
		44 x 6*	180	82	1200	83	1065	483		
		16	11	5	1200	83	74	335		
CHEMGAZ 1	99.5%	49	37	17	1200	83	180	82	Two-Stage Regulator Q1-211B-350 Q1-209A-350 Q1-14C-350 Single-Stage Regulator Q1-205B-350 Q1-202B-350 LB Regulator Q1-20B-170	269 268 275 269 268
		49 x 16	592	268	1200	83	3188	1445		
		44	30	14	1200	83	927	420		
		44 x 6*	180	82	1200	83	1065	483		
		16	11	5	1200	83	74	335		
LB	0.2	0.1	1200	83	3.9	2				

* Not available in Canada.

Tube trailer quantities of ethylene are available.

CHEMGAZ 1 may be sold for crop applications in permitted states; specify product registered with FIFRA when ordering.

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