

Hydrogen Sulfide H₂S

Synonyms: Dihydrogen Sulfide, Hydrosulfuric Acid, Sulfuretted Hydrogen

Physical Constants of Gas

Molecular Weight 34.08
 Specific Volume 11.23 CF/lb. (0.69 m³/kg)
 Boiling Point -76.4°F (-60.2°C) 1 atm
 Gas Density 70°F 1 atm 1.45 kg/m³

Cylinder Data

CGA Valve Outlet 330, 722
 LB CGA Outlet 110

Shipping Data

Shipping Class 175
 DOT/TC Name Hydrogen Sulfide
 DOT Class ... 2.3 (Poisonous Gas) Hazard Zone B
 TC Class 2.3 (2.1) Toxic Gas (Flammable Gas)
 WHMIS Class AB1D1A2B
 DOT Label Poison Gas, Flammable
 CAS Registry No. 7783-06-4
 UN No./ATA No. UN1053

Safety Information

Poisonous and flammable gas.
 Flammability limits: lower 4.3%; upper 46%.
 Can form explosive mixture with air.
 May cause respiratory tract and central nervous system damage.
 Can cause eye irritation.
 Gas deadens sense of smell. Symptoms of exposure may be delayed.
 May be fatal if inhaled.

Specifications									Recommended Equipment	
Grade	Purity (Minimum)	Size	Contents		Pressure		Weight		Description Model Number	Page
			lbs.	kg	psig	bar	lbs.	kg		
CHEMGAZ 1	99.5% Liquid Phase	44 LB*	60	27	252	17	193	88	Single-Stage Tied-Diaphragm Regulator Q1-217A-330	272
			0.5	0.2	252	17	4	2		
									Cross Purge Assembly Q4-P74-330	339

* Please contact your Air Liquide representative for availability.

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