

Hydrogen Fluoride HF

Synonyms: Hydrofluoric Acid, Fluoric Acid, Fluohydric Acid

Physical Constants of Gas

Molecular Weight 20.01
 Specific Volume 19.3 CF/lb. (0.0 m³/kg)
 Boiling Point 67.14°F (19.52°C) 1 atm
 Gas Density 70°F 1 atm 0.83 kg/m³

Cylinder Data

CGA Valve Outlet 638, 678

Shipping Data

Shipping Class 150
 DOT/TC Name Hydrogen Fluoride, Anhydrous
 DOT Class 8 (Corrosive Material)
 Packing Group 1, Hazard Zone C
 TC Class 8 (6.1) Corrosive (Poisonous)
 WHMIS Class D1AE
 DOT Label Poisonous Gas, Corrosive
 CAS Registry No. 7664-39-3
 UN No./ATA No. UN1052

Safety Information

Corrosive, poisonous liquid and gas under pressure.
 Causes severe eye, skin and respiratory tract burns.
 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	99.95%	44	90	41	0.6	0.1	193	88	Manual Control Valve Q1-40S Series	329
Electronic Grade 1 H ₂ O < 15 ppm H ₂ SiF ₆ < 20 ppm SO ₂ < 20 ppm Acidity as H ₂ SO ₄ < 20 ppm	99.95%	16	20	9	0.6	0.1	85	39	Manual Control Valve Q1-40S Series	329
		7	8	4	0.6	0.1	35	16		

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