

Deuterium D₂

Synonym: Heavy Hydrogen

Physical Constants of Gas

Molecular Weight 4.032
 Specific Volume 95.9 CF/lb. (5.95 m³/kg)
 Boiling Point -417.3°F (-249.6°C) 1 atm
 Gas Density 70°F 1 atm 0.168 kg/m³

Cylinder Data

CGA Valve Outlet 350
 LB CGA Outlet 110, 170

Shipping Data

Shipping Class 70
 DOT/TC Name Deuterium, Compressed
 DOT/TC Class 2.1 (Flammable Gas)
 WHMIS Class AB1
 DOT Label Flammable Gas
 CAS Registry No. 7782-39-0
 UN No./ATA No. UN1957

Safety Information

Flammable gas.
 Flammability limits: lower 5%; upper 75%.
 Can form explosive mixture with air.
 May ignite if valve is open to air.
 Burns with an invisible flame.

Specifications									Recommended Equipment	
Grade	Purity (Minimum)	Size	Contents		Pressure		Weight		Description Model Number	Page
			CF	liters	psig	bar	lbs.	kg		
CHEMGAZ 1	99.7%	44	177	5000	1100	76	134	61	Two-Stage Regulator Q1-318B-350	270
		7	18	500	1090	75	5	2		
		LB	2	50	1800	124	4	2	LB Regulator Q1-20B-170	294

Deuterated compounds are available on request – 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.