



Hydrogen Sulfide

Description

Synonyms: Hydrogen Sulphide, Hydrosulfuric Acid
Formula: H₂S


Gas Data

Molecular Weight: 34.08
Density: 1.411 kg/m³ @ 21.1°C, 101.325 kPa
0.0881 lb/ft³ @ 70°F, 14.696 psia
Specific Volume: 0.7087 m³/kg @ 21.1°C, 101.325 kPa
11.35 ft³/lb @ 70°F, 14.696 psia

Safety Information

LFL in Air: 4%
UFL in Air: 44%
Permissible Exposure
Limit (TLV): 10 ppm

Shipping Information

CAS Registry Number: 7783-06-4
UN Number: UN 1053
ECCN Number: EAR99
DOT Proper Shipping Name: Hydrogen Sulfide
DOT Classification: 2.3, Hazard Zone B (gas poisonous by inhalation)
DOT Label: INHALATION HAZARD 
FLAMMABLE GAS
TC Shipping Name: Hydrogen Sulphide, Liquefied
TC Classification: 2.3, 2.1
TC Label: POISON GAS, FLAMMABLE GAS

Cylinder Specifications

Cylinder Size	Valve Outlet CGA No.	Pressure psig @ 70°F	Pressure kPa @ 21.1°C	Approximate Ship Weight	
				lb	kg
1T	330	252	1,737	2282	1037
1A	330	252	1,737	192	87
2	330	252	1,737	96	44
3	330	252	1,737	48	22
4	330	252	1,737	25	11
LB	180	252	1,737	6	3

Gas Grade Purity Specifications	Product Code	Cylinder Size	Content		Equipment Recommendations	Model No.	Page No.
			US	Metric			
Hydrogen Sulfide, CP Grade 99.5%	G1540220	1T	1055 lb	480 kg	Single Stage Reg. LB Regulator Cross Purge Personal Monitor Leak Detector Leak Detector Detector Tube Cyl. Valve Wrench	Series 3610A-330	316
	G1540201	1A	60 lb	27.22 kg		Series 3570-180	314
	G1540240	2	22 lb	9.98 kg		4774-330	422
	G1540250	3	9 lb	4.08 kg		IQ250	398
	G1540265	4	2.75 lb	1.25 kg		8057	402
	G1540275	LB	0.5 lb	227 gm		8081A	404
					8014-120SD	392	
					TW-2*	430	
Hydrogen Sulfide, Technical Purity 99%	G265911	1T	1055 lb	480 kg	Single Stage Reg. LB Regulator Cross Purge Tee Purge Personal Monitor Leak Detector Leak Detector Detector Tubes Cyl. Valve Wrench	Series 3610A-330	316
	G1540101	1A	60 lb	27.22 kg		Series 3570-180	314
	G1540140	2	22 lb	9.98 kg		4774-330	422
	G1540150	3	9 lb	4.08 kg		4754-330	423
	G1540175	LB	0.5 lb	227 gm		IQ250	398
						8057	402
				8081A	404		
				8014-120SD	392		
				TW-2*	430		

A lot analysis will be provided on request.

A lot analysis is available at a nominal charge

*Except LB

A Certificate of Conformance will be provided on request.

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*Except LB