



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 US	Metric	Equipment Recommendations	Model No.	
Hydrogen Sulfide, Research Grade, 99.9% <i>Guaranteed Specifications (in Vol %)</i>	G2690117	1A	60 lb	27.22 kg	Single Stage Reg. LB Regulator Cross Purge Leak Detector Leak Detector Detector Tube Cyl. Valve Wrench	Series 3610A-330 Series 3570-180 4774-330 8057 8081A 8014-120SD TW-2*	
	G2690118	2	22 lb	10 kg			
	G2679556	3	9 lb	4.1 kg			
	Carbon Dioxide ≤ 0.01%						
Carbon Disulfide ≤ 0.02%							
Carbonyl Sulfide ≤ 0.06%							
Nitrogen ≤ 0.01%							
Total Hydrocarbons ≤ 0.01%							
<i>A Certificate of Conformance available on request. A Certificate of Analysis available at nominal charge. *Except LB</i>							
Hydrogen Sulfide, CP Grade 99.5% <i>Guaranteed Specifications (in Vol %)</i>	G1540220	1T	1055 lb	480 kg	Single Stage Reg. LB Regulator Cross Purge Tee Purge Leak Detector Leak Detector Detector Tubes Cyl. Valve Wrench	Series 3610A-330 Series 3570-180 4774-330 4754-330 8057 8081A 8014-120SD TW-2*	
	G1540201	1A	60 lb	27.22 kg			
	G1540240	2	22 lb	9.98 kg			
	G1540250	3	9 lb	4.08 kg			
	G1540265	4	2.75 lb	1.25 kg			
	G1540175	LB	0.5 lb	227 gm			
	Carbon Dioxide ≤ 0.05%						
	Carbon Disulfide ≤ 0.1%						
Carbonyl Sulfide ≤ 0.2%							
Nitrogen ≤ 0.01%							
Total Hydrocarbons ≤ 0.3%							
<i>A Certificate of Conformance available on request.* A Certificate of Analysis available at nominal charge. *Except LB</i>							

⚠WARNING: This product can expose you to chemicals including Carbon Disulfide, which is known to the State of California to cause birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov.