

HYDROGEN SULPHIDE (H₂S)

Synonyms : Sulfur hydride; Sulfurated hydrogen;
Dihydrogen monosulfide; Dihydrogen sulfide



Gas Description

Hydrogen Sulphide is colourless, flammable gas with the odour likened to rotten eggs. Hydrogen Sulphide has a gas density at STP 1.45 kg/m³.

Typical applications :

Solvent
Preparation of metallic sulphides in metallurgy reagent in chemical analysis and synthesis

Transport Regulations :

UN Number : 1053
Shipping Name : HYDROGEN SULPHIDE
Class : 2.3 (2.1) Toxic gases
CAS Number : 7783-06-4
Hazchem : 2WE

[Click here](#) for MSDS
[Click here](#) for more information

Physical Properties

Chemical symbol : H₂S
Molecular weight : 34.08
Specific gravity (Air=1) : 1.189
Specific volume (m³/kg) : 0.69
Critical temperature : 100°C
Boiling point : -60.2°C

Melting Point : -86°C
Critical pressure (bar) : 90.28
Major hazards : Inhalation and Fire
Toxicity : TWA 10ppm STEL 15 ppm
Flammability Range : 4.0 - 45% ref N°177
Odour : Rotten Eggs

[Click here](#) for more information

Application

INDUSTRY

Chemicals

Laboratories and Analysis

Pharmaceuticals

Metals

APPLICATION

Used in the manufacture of sodium sulfide and thiophenes.

Used to calibrate environmental emission monitoring, industrial hygiene monitors and trace impurity analyzers.

Manufacture of some pharmaceuticals

Wire galvanizing / brightening

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AIR LIQUIDE

Hydrogen Sulphide : **N25**

Standard Purity 99.5%

<u>Gas</u>		<u>Cylinder information</u>			
Typical impurities (ppm molar)		Cylinder Size	Valve Connection	Pressure (kPa)	Contents (m ³)
H ₂ O	< 10ppm	B 1 alu	NF E	1450	.34
CH ₄	< 500ppm	B 5			2
CS ₂	< 2000ppm	B10			4
COS	< 2000ppm	B20			9
CO ₂	< 100ppm	B50			22
N ₂	< 500ppm				

Recommended Equipment

Single stage chrome plated brass body regulator with a stainless steel diaphragm.

For further information [Contact](#) the specialty gases representative in your region.