

SULFUR DIOXIDE (SO₂)

Synonyms : Sulfur oxide; Sulfurous anhydride; Sulfurous oxide; Bisulfite



Gas Description

Sulfur Dioxide is an colourless gas with a strong suffocating odour and a gas density at STP 2.77 kg/m³.

Typical applications :

Refrigerant fumigant
insecticide fungicide
Preservative bleaching agent
manufacturing of chemicals
Solvent
Preperation of mixtures for pollution control

Transport Regulations :

UN Number : 1079
Shipping Name : SULFUR DIOXIDE
Class : 2.3: Toxic gas (corrosive)
CAS Number : 7446-09-5
Hazchem : 2RE

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

Physical Properties

Chemical symbol : SO₂
Molecular weight : 64.06
Specific gravity (Air=1) : 2.262
Specific volume (m³/kg) : 78.87
Critical temperature : -158°C
Boiling point : -10.1°C

Melting Point : -76°C
Critical pressure (bar) : 48.66
Major hazards : Inhalation
Toxicity : TWA 2ppm STEL 5ppm
Flammability Range : Non-Flammable
Odour : Pungent and Irritating

[Click here](#) for more information

Application

INDUSTRY	APPLICATION
Chemicals	Sulfur dioxide is the starting material in the production of sulfuric acid.
Pulp and Paper	Sulfur dioxide is a bleaching agent in the pulp and paper industry.
Laboratories and Analysis	Used in calibration gas mixtures for petrochemical industry.
Food and Beverage	Used as a bleach, and stepping agent for grain. Used in wine industry to protect grapes.
Non Ferrous Metals	Flotation depressant for sulfide ores in the mining industry

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AIR LIQUIDE

Sulfur Dioxide

Standard Purity 99.90%

<u>Gas</u>		<u>Cylinder information</u>			
Typical impurities (ppm molar)		Cylinder Size	Valve Connection	Pressure (kPa)	Contents (m ³)
Oil	11	600	AS 2473 TYPE 32		600
As	< 0.04	50			50
Pb	0.1				
Zn	0.1				
Cu + Zn	< 1				
Se	0.5				

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.