

SULFUR DIOXIDE (SO₂)

Synonyms : Sulfer oxide; Sulfurous anhydride; Sulfurous oxide; Bisulfite



Gas Description

Sulfur Dioxide is a 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
Preparation 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

Chemicals

Pulp and Paper

Laboratories and Analysis

Food and Beverage

Non Ferrous Metals

APPLICATION

Sulfur dioxide is the starting material in the production of sulfuric acid.

Sulfur dioxide is a bleaching agent in the pulp and paper industry.

Used in calibration gas mixtures for petrochemical industry.

Used as a bleach, and stepping agent for grain. Used in wine industry to protect grapes.

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.