

# SULFUR DIOXIDE (SO<sub>2</sub>)

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/m<sup>3</sup>.

### 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 : SO<sub>2</sub>  
Molecular weight : 64.06  
Specific gravity (Air=1) : 2.262  
Specific volume (m<sup>3</sup>/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 <sup>3</sup> )
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.