



## Sulfur Dioxide

## Description

Formula: SO<sub>2</sub>  
 Synonym: Sulfurous Acid Anhydride


## Gas Data

Molecular Weight: 64.07  
 Density: 2.67kg/m<sup>3</sup> @ 21.1°C, 101.325 kPa  
 0.167 lb/ft<sup>3</sup> @ 70°F, 14.696 psia  
 Specific Volume: 0.374 m<sup>3</sup>/kg @ 21.1°C, 101.325 kPa  
 5.99 ft<sup>3</sup>/lb @ 70°F, 14.696 psia

## Safety Information

Permissible Exposure  
 Limit (TLV): 2 ppm

## Shipping Information

CAS Registry Number: 7446-09-5  
 UN Number: UN 1079  
 ECCN Number: EAR99  
 DOT Proper Shipping Name: Sulfur Dioxide  
 DOT Classification: 2.3, Hazard Zone C (gas poisonous by  
 inhalation)  
 DOT Label: INHALATION HAZARD   
 CORROSIVE GAS  
 TC Shipping Name: Sulfur Dioxide  
 TC Classification: 2.3  
 TC Label: POISON GAS

## Cylinder Specifications

Cylinder Size	Valve Outlet CGA No.	Pressure psig @ 70°F	Pressure kPa @ 21.1°C	Approximate Ship Weight	
				lb	kg
1J	660	34	237	210	95
1A	660	34	237	232	105
2	660	34	237	114	52
3	660	34	237	54	24
4	660	34	237	27	12
LB	180	34	237	6	3

Gas Grade Purity Specifications	Product Code	Cylinder Size	Content US	Content Metric	Equipment Recommendations	Model No.	Page No.
Sulfur Dioxide, Anhydrous 99.98%	G1585210	1J	150 lb	68.04 kg	Single-Stage Reg.	Series 3610A-660	316
	G1585201	1A	100 lb	45.36 kg	LB Regulator	Series 3570-180	314
	G1585240	2	40 lb	18.14 kg	Cross Purge	4774-660	422
	G1585250	3	15 lb	6.80 kg	Personal Monitor	IQ250	398
	G1585265	4	5 lb	2.27 kg	Leak Detector	8081A	404
	G1585275	LB	1 lb	454 gm	Detector Tube	8014-1035E	393
					Cyl. Valve Wrench	TW-2*	430
Sulfur Dioxide, Anhydrous w/ Eductor Tube 99.98%	G1585510	1J	150 lb	68.04 kg	Manual Control Valve	61A-660	417
					Personal Monitor	IQ250	398
					Leak Detector	8081A	404
					Detector Tube	8014-1035E	393
					Cyl. Valve Wrench	TW-2	430

Liquid phase, weight/weight%

A Certificate of Conformance will be provided on request.

By request, all except LB can be furnished with full length eductor tube for liquid withdrawal.

\*Except LB

Liquid phase, weight/weight%

A Certificate of Conformance will be provided on request.

Note: Recommended regulators are for gas phase withdrawal only.

⚠ WARNING: This product can expose you to chemicals including Sulfur Dioxide, 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](http://www.P65Warnings.ca.gov).