



Sulfur Dioxide

Description

Formula: SO₂
 Synonym: Sulfurous Acid Anhydride


Gas Data

Molecular Weight: 64.07
 Density: 2.67kg/m³ @ 21.1°C, 101.325 kPa
 0.167 lb/ft³ @ 70°F, 14.696 psia
 Specific Volume: 0.374 m³/kg @ 21.1°C, 101.325 kPa
 5.99 ft³/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		Approximate Ship Weight	
		psig @ 70°F	kPa @ 21.1°C	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	Metric	Equipment Recommendations	Model No.	Page No.
Sulfur Dioxide, Anhydrous 99.98%	G1585210	1J	150 lb	68.04 kg	Single-Stage Reg. LB Regulator Cross Purge Personal Monitor Leak Detector Detector Tube Cyl. Valve Wrench	Series 3610A-660	316
	G1585201	1A	100 lb	45.36 kg		Series 3570-180	314
	G1585240	2	40 lb	18.14 kg		4774-660	422
	G1585250	3	15 lb	6.80 kg		IQ250	398
	G1585265	4	5 lb	2.27 kg		8081A	404
	G1585275	LB	1 lb	454 gm		8014-103SE	393
					TW-2*	430	
Sulfur Dioxide, Anhydrous w/ Eductor Tube 99.98%	G1585510	1J	150 lb	68.04 kg	Manual Control Valve Personal Monitor Leak Detector Detector Tube Cyl. Valve Wrench	61A-660	417
						IQ250	398
						8081A	404
						8014-103SE	393
						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%

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Note: Recommended regulators are for gas phase withdrawal only.