



Dimethyl Ether

Description

Synonym: Methyl Ether
 Formula: C₂H₆O

Gas Data

Molecular Weight: 46.07
 Density: 1.9 kg/m³ @ 21.1°C, 101.325 kPa
 0.12 lb/ft³ @ 70°F, 14.696 psia
 Specific Volume: 0.52 m³/kg @ 21.1°C, 101.325 kPa
 8.4 ft³/lb @ 70°F, 14.696 psia

Safety Information

LFL in Air: 3.4%
 UFL in Air: 27%

Shipping Information

CAS Registry Number: 115-10-6
 UN Number: UN 1033
 ECCN Number: EAR99
 DOT Proper Shipping Name: Dimethyl Ether
 DOT Classification: 2.1 (Flammable Gas)
 DOT Label: FLAMMABLE GAS
 TC Shipping Name: Dimethyl Ether
 TC Classification: 2.1
 TC Label: FLAMMABLE GAS

Cylinder Specifications

Cylinder Size	Valve Outlet CGA No.	Pressure		Approximate Ship Weight	
		psig @ 70°F	kPa @ 21.1°C	lb	kg
1F	510	62	430	182	83
1A	510	62	430	144	65
2	510	62	430	89	40
3	510	62	430	45	20
4	510	62	430	24	11
LB	170	62	430	6	3

Gas Grade Purity Specifications	Product Code	Cylinder Size	Content		Equipment Recommendations	Model No.	Page No.
			US	Metric			
Dimethyl Ether 99.5%	G1410106	1F	100 lb	45.36 kg	Single Stage Reg.	Series 3530-510	313
	G1410101	1A	40 lb	18.14 kg	LB Regulator	Series 3320-170	302
	G1410140	2	15 lb	6.80 kg	Tee Purge	4753-510	423
	G1410150	3	7 lb	3.18 kg	Personal Monitor	IQ250	398
	G1410165	4	2 lb	0.91 kg	Leak Detector	8057	402
	G1410175	LB	0.375 lb	170 gm	Detector Tube	8014-123S	391
					Outlet Plug Wrench	TW-4*	430

Liquid phase, weight/weight%

A Certificate of Conformance will be provided on request.

*Except LB