



# Monomethylamine

## Description

Synonym: Methanamine  
Formula:  $\text{CH}_3\text{NH}_2$

## Gas Data

Molecular Weight: 31.06  
Density: 1.32 kg/m<sup>3</sup> @ 21.1°C, 101.325 kPa  
0.0826 lb/ft<sup>3</sup> @ 70°F, 14.696 psia  
Specific Volume: 0.755 m<sup>3</sup>/kg @ 21.1°C, 101.325 kPa  
12.1 ft<sup>3</sup>/lb @ 70°F, 14.696 psia

## Safety Information

LFL in Air: 4.9%  
UFL in Air: 20.7%  
Permissible Exposure Limit (TLV): 5 ppm

## Shipping Information

CAS Registry Number: 74-89-5  
UN Number: UN 1061  
ECCN Number: EAR99  
DOT Proper Shipping Name: Methylamine, Anhydrous  
DOT Classification: 2.1 (Flammable Gas)  
DOT Label: FLAMMABLE GAS  
TC Shipping Name: Methylamine, Anhydrous  
TC Classification: 2.1  
TC Label: FLAMMABLE GAS

## Cylinder Specifications

Cylinder Size	Valve Outlet CGA No.	Pressure psig @ 70°F	Pressure kPa @ 21.1°C	Approximate Ship Weight	
				lb	kg
1F	705	29	200	207	94
2	705	29	200	89	40
3	705	29	200	44	20
4	705	29	200	14	6
LB	180	29	200	6	3

Gas Grade Purity Specifications	Product Code	Cylinder Size	Content		Equipment Recommendations	Model No.	Page No.
			US	Metric			
Monomethylamine, CP Grade 99.5%	G1552106	1F*	125 lb	56.70 kg	Single Stage Reg.	Series 3610A-705***	316
	G1552140	2	15 lb	6.80 kg	LB Regulator	Series 3570-180***	314
	G1552150	3	5 lb	2.27 kg	Manual Control Valve	61A-705	417
	G1552165	4	2 lb	0.91 kg	Tee Purge	4754-705	423
	G1552175	LB	0.375 lb	170 gm	Detector Tube	8014-227S	392
					Cyl. Valve Wrench	TW-2**	430

A Certificate of Conformance will be provided on request.

\*Equipped with a goose neck eductor tube.

\*\*Except LB

\*\*\*Gas Phase only