

Methane CH₄

Synonyms: Methyl Hydride, Marsh Gas

Physical Constants of Gas

Molecular Weight 16.043
 Specific Volume 23.80 CF/lb. (1.47 m³/kg)
 Boiling Point -259°F (-161.7°C) 1 atm
 Gas Density 70°F 1 atm 0.68 kg/m³

Cylinder Data

CGA Valve Outlet 350, 724
 LB CGA Outlet 110, 170

Shipping Data

Shipping Class 70
 DOT/TC Name Methane, Compressed
 DOT/TC Class 2.1 (Flammable Gas)
 WHMIS Class AB1
 DOT Label Flammable Gas
 CAS Registry No. 74-82-8
 UN No./ATA No. UN1971

Safety Information

Flammable gas.
 Flammability limits: lower 5%; upper 15%.
 Can form explosive mixture with air.
 Can cause rapid suffocation.

Specifications									Recommended Equipment	
Grade	Purity (Minimum)	Size	Contents		Pressure		Weight		Description Model Number	Page
			CF	m ³	psig	bar	lbs.	kg		
CHEMGAZ 4	99.999%	49	355	10	2400	166	162	77	Two-Stage Regulator	
		44	295	8	2265	156	144	65	Q1-318B-350	270
		16	103	3	2000	138	7	3	Q1-14C-350	275
		LB	2	0.1	1800	124	4	2	LB Regulator Q1-20B-170	294
CHEMGAZ 3	99.99%	49	355	10	2400	166	162	77	Two-Stage Regulator	
		44	295	8	2265	156	144	65	Q1-318B-350	270
		16	103	3	2000	138	7	3	Q1-14C-350	275
		LB	2	0.1	1800	124	4	2	LB Regulator Q1-20B-170	294
CHEMGAZ 2	99.92%	49	355	10	2400	166	162	77	Two-Stage Regulator	
		49 x 16	5680	161	2400	166	2834	1285	Q1-211B-350	269
		44	295	8	2265	156	144	65	Q1-14C-350	275
		44 x 6*	1770	50	2265	156	959	435	LB Regulator	
		16	103	3	2000	138	7	31	Q1-20B-170	294
CHEMGAZ 1	99%	49	355	10	2400	166	162	77	Two-Stage Regulator	
		49 x 16	5680	161	2400	166	2834	1285	Q1-211B-350	269
		44	295	8	2265	156	144	65	Q1-209A-350	268
		44 x 6*	1770	50	2265	156	959	435	Q1-14C-350	275
		16	103	3	2000	138	7	31	Single-Stage Regulator	
Electronic Grade 1 H ₂ O < 1 ppm N ₂ < 5 ppm O ₂ < 2 ppm THC < 2 ppm**	99.999%	49	355	10	2265	166	162	77	Two-Stage Regulator	
		44	295	8	2400	156	156	65	Q1-318B-350	270
									Q1-215B-350	271
									LB Regulator Q1-20B-170	294

* Not available in Canada.

** Other hydrocarbons: C₂H₄, C₂H₆, C₃H₆, C₃H₈.

We stock SCOTT™ regulators, manifolds, flowmeters, point-of-use panels, cabinets, valves and related equipment.