

Halocarbon 41 CH₃F

Synonyms: Methyl Fluoride, Fluoromethane, R41

Physical Constants of Gas

Molecular Weight 34.03
 Vapor Pressure 552.7 psia at 70°F
 Specific Volume 11.36 CF/lb. (0.32 m³/kg)
 Boiling Point -109.2°F (-78.4°C) 1 atm
 Gas Density 70°F 1 atm 1 kg/m³

Cylinder Data

CGA Valve Outlet 350, 724

Shipping Data

Shipping Class 70
 DOT/TC Name Methyl Fluoride
 DOT/TC Class 2.1 (Flammable Gas)
 WHMIS Class AB1
 DOT Label Flammable Gas
 CAS Registry No. 593-53-3
 UN No./ATA No. UN2454

Safety Information

Flammable liquid and gas under pressure.
 Flammability limits: please inquire.
 Can form explosive mixture with air.
 May cause frostbite.

Specifications									Recommended Equipment	
Grade	Purity (Minimum)	Size	Contents		Pressure		Weight		Description Model Number	Page
			lbs.	kg	psig	bar	lbs.	kg		
Electronic Grade 2 CO < 2 ppm CO ₂ < 5 ppm H ₂ O < 5 ppm N ₂ < 10 ppm O ₂ < 5 ppm Acidity < 0.1 ppm wt Other Halocarbons < 10 ppm	99.995%	44	25	12	538	37	150	68	Two-Stage Regulator Q1-14C-(*) Single-Stage Regulator Q1-213B-(*)	275
		16	9	4	538	37	75	34		
Electronic Grade 1 CO ₂ < 5 ppm H ₂ O < 10 ppm N ₂ < 50 ppm O ₂ < 10 ppm Other Halocarbons < 300 ppm	99.95%	44	25	12	538	37	150	68	Two-Stage Regulator Q1-14C-(*) Single-Stage Regulator Q1-213B-(*)	275
		16	9	4	538	37	75	34		

* Specify CGA. Other cylinder connections are also available – please contact your Air Liquide representative.

Need advice on SCOTT™ equipment to safely deliver gas to your point-of-use? Call our Solutions Center at 800.217.2688.