

Methyl Chloride(CH₃Cl)

Specifications

Items	UNIT	Methyl Chloride
Purity	wt. %	99.9min.
Moisture	ppm	100max.
Acidity as HCl	ppm	20max.
Non-volatile Matter	ppm	10max.

Methyl Chloride(CH₃Cl)

Physical Properties

Items	Unit	Methylene Chloride
Chemical Formula		CH ₃ Cl
Molecular weight	g/mole	50.5
Freezing Point		-97.7
Boiling Point		-23.7
Steam Distillation Point(1 atm)		
Latent Heat of Vaporization (B.P.)	cal/g	102.4
Specific Heat (Liquid,20) (Vapor,B.P.) (Vapor,b.p.)	cal/g/	0.381 0.119
Thermal Conductivity(Liquid,20) (Vapor,b.p.)	$\frac{\text{Btu}\cdot\text{ft}}{\text{hr}\cdot\text{ft}^2}$	0.0934 0.14075
Critical Temperature		145.1
Critical Pressure	atm	65.9
Vapor Pressure(20)	mmHg	3700
Specific Gravity (20 /4)		
Vapor Density (B.P.,760mmHg)	g/l	2.25
Coefficient of Cubical Expansion	ml/ml/	0.00209(-30~30)
Surface Tension in Air (20)	dyne/cm ²	76
Diffusivity in Air (25 ,1atm)	cm ² /sec	
Vaporization Rate (Ether=100)		
Vaporization Rate (n-butyl acetate=100)		
Solubility in H ₂ O (25)	%	0.84
Solubility H ₂ O in (25)	%	0.0725
Viscosity (Liquid,20) (Vapor)	cp	
Refractive Index (Liquid N) (Vapor,b.p.)		1.3712(-23) 1.000703(25)
Dielectric Constant (Liquid,20) (Vapor,B.P.)		
Heat of Formation (Liquid) (Vapor) (Vapor)	kg·cal/mole	