

# Chloroform(CHCl<sub>3</sub>)

## Specifications

Items	UNIT	chloroform
Purity	wt. %	99.90min.
Moisture	ppm	100max.
Acidity as HCl	ppm	5max.
Non-volatile Matter	ppm	10max.
Color	APHA	5max.
Appearance		Clear and colorless

# Chloroform(CHCl<sub>3</sub>)

## Specifications

Items	Unit	Chloroform
Chemical Formula		CHCl <sub>3</sub>
Molecular weight	g/mole	119.4
Freezing Point		-60.5
Boiling Point		61.2
Steam Distillation Point(1 atm)		56
Latent Heat of Vaporization (B.P.)	cal/g	59.3
Specific Heat (Liquid,20 °C) (Vapor,B.P.)	cal/g/	0.234 0.142(61 °C)
Thermal Conductivity(Liquid,20 °C) (Vapor,B.P.)	$\frac{\text{Btu} \cdot \text{ft}}{\text{hr} \cdot \text{ft}^2}$	0.0751 0.00455
Critical Temperature		262.9
Critical Pressure	atm	53.8
Vapor Pressure(20 °C)	mmHg	159
Specific Gravity (20 °C / 4 °C)		1.489
Vapor Density (B.P.,760mmHg)	g/l	4.36
Coefficient of Cubical Expansion	ml/ml/	0.00129 (0-40 °C)
Surface Tension in Air (20 °C)	dyne/cm <sup>2</sup>	27.1
Diffusivity in Air (25 °C, 1atm)	cm <sup>2</sup> /sec	0.079
Vaporization Rate (Ether=100)		56
Vaporization Rate (n-butyl acetate=100)		1160
Solubility in H <sub>2</sub> O (25 °C)	%	0.8
Solubility H <sub>2</sub> O in (25 °C)	%	0.097
Viscosity (Liquid,20 °C) (Vapor)	cp	0.57 0.0115(61 °C)
Refractive Index (Liquid N) (Vapor,b.p.)		1.4455 1.001436(0 °C)
Dielectric Constant (Liquid,20 °C) (Vapor,B.P.)		4.735 1.0046
Power factor (1,000 cycles)	%	
Heat of Formation (Liquid) (Vapor)	$\frac{\text{kg} \cdot \text{cal}}{\text{mole}}$	31.2 23.6