

Solvay Chemicals Hydrochloric Acid 31% - Technical Grade (2 wt% - 10 wt% Concentration)

Category : Fluid

Material Notes:

Hydrochloric acid, also known as muriatic acid, is a colorless to yellow liquid, with a pungent odor. Hydrochloric acid is a strong acid used as chemical reagent, pH-regulating, ion exchanger regenerating, pickling or cleaning agent. EINECS: 231-595-7/CAS: 7647-01-0/UN:

1789 Information provided by Solvay

Order this product through the following link:

http://www.lookpolymers.com/polymer_Solvay-Chemicals-Hydrochloric-Acid-31-Technical-Grade-2-wt-10-wt-Concentration.php

Physical Properties	Metric	English	Comments
Density	0.9639 g/cc	0.03482 lb/in ³	Concentration 0.01 kg HCl/kg
	@Temperature 100 Å°C	@Temperature 212 Å°F	
	0.9688 g/cc	0.03500 lb/in ³	Concentration 0.02 kg HCl/kg
	@Temperature 100 Å°C	@Temperature 212 Å°F	
	0.9791 g/cc	0.03537 lb/in ³	Concentration 0.04 kg HCl/kg
	@Temperature 100 Å°C	@Temperature 212 Å°F	
	0.9892 g/cc	0.03574 lb/in ³	Concentration 0.06 kg HCl/kg
	@Temperature 100 Å°C	@Temperature 212 Å°F	
	0.997 g/cc	0.0360 lb/in ³	Concentration 0.01 kg HCl/kg
	@Temperature 40.0 Å°C	@Temperature 104 Å°F	
	0.9992 g/cc	0.03610 lb/in ³	Concentration 0.08 kg HCl/kg
	@Temperature 100 Å°C	@Temperature 212 Å°F	
	1.0019 g/cc	0.036196 lb/in ³	Concentration 0.02 kg HCl/kg
	@Temperature 40.0 Å°C	@Temperature 104 Å°F	
	1.0048 g/cc	0.036301 lb/in ³	Concentration 0.01 kg HCl/kg
	@Temperature -5.00 Å°C	@Temperature 23.0 Å°F	
	1.009 g/cc	0.03645 lb/in ³	Concentration 0.10 kg HCl/kg
	@Temperature 100 Å°C	@Temperature 212 Å°F	
	1.0104 g/cc	0.036503 lb/in ³	Concentration 0.02 kg HCl/kg
	@Temperature -5.00 Å°C	@Temperature 23.0 Å°F	

Physical Properties	Metric $\frac{g}{cc}$	English $\frac{lb}{in^3}$	Comments
	@Temperature 40.0 Å°C	@Temperature 104 Å°F	Concentration 0.04 kg HCl/kg
	1.0211 g/cc @Temperature 40.0 Å°C	0.036890 lb/in ³ @Temperature 104 Å°F	Concentration 0.06 kg HCl/kg
	1.0213 g/cc @Temperature -5.00 Å°C	0.036897 lb/in ³ @Temperature 23.0 Å°F	Concentration 0.04 kg HCl/kg
	1.0305 g/cc @Temperature 40.0 Å°C	0.037229 lb/in ³ @Temperature 104 Å°F	Concentration 0.08 kg HCl/kg
	1.0321 g/cc @Temperature -5.00 Å°C	0.037287 lb/in ³ @Temperature 23.0 Å°F	Concentration 0.06 kg HCl/kg
	1.04 g/cc @Temperature 40.0 Å°C	0.0376 lb/in ³ @Temperature 104 Å°F	Concentration 0.10 kg HCl/kg
	1.0428 g/cc @Temperature -5.00 Å°C	0.037674 lb/in ³ @Temperature 23.0 Å°F	Concentration 0.08 kg HCl/kg
	1.0536 g/cc @Temperature -5.00 Å°C	0.038064 lb/in ³ @Temperature 23.0 Å°F	Concentration 0.10 kg HCl/kg
Viscosity	0.30 cP @Temperature 100 Å°C	0.30 cP @Temperature 212 Å°F	Dynamic, Concentration 0.05 kg FeCl ₃ /kg
	0.31 cP @Temperature 100 Å°C	0.31 cP @Temperature 212 Å°F	Dynamic, Concentration 0.10 kg FeCl ₃ /kg
	0.38 cP @Temperature 80.0 Å°C	0.38 cP @Temperature 176 Å°F	Dynamic, Concentration 0.05 kg FeCl ₃ /kg
	0.41 cP @Temperature 80.0 Å°C	0.41 cP @Temperature 176 Å°F	Dynamic, Concentration 0.10 kg FeCl ₃ /kg
	0.51 cP @Temperature 60.0 Å°C	0.51 cP @Temperature 140 Å°F	Dynamic, Concentration 0.05 kg FeCl ₃ /kg

Physical Properties	Metric	English	Comments
	@Temperature 60.0 °C	@Temperature 140 °F	Dynamic, Concentration 0.10 kg FeCl3/kg
	0.72 cP @Temperature 40.0 °C	0.72 cP @Temperature 104 °F	Dynamic, Concentration 0.05 kg FeCl3/kg
	0.79 cP @Temperature 40.0 °C	0.79 cP @Temperature 104 °F	Dynamic, Concentration 0.10 kg FeCl3/kg
	1.1 cP @Temperature 20.0 °C	1.1 cP @Temperature 68.0 °F	Dynamic, Concentration 0.05 kg FeCl3/kg
	1.19 cP @Temperature 20.0 °C	1.19 cP @Temperature 68.0 °F	Dynamic, Concentration 0.10 kg FeCl3/kg
	1.4 cP @Temperature 10.0 °C	1.4 cP @Temperature 50.0 °F	Dynamic, Concentration 0.05 kg FeCl3/kg
	1.5 cP @Temperature 10.0 °C	1.5 cP @Temperature 50.0 °F	Dynamic, Concentration 0.10 kg FeCl3/kg
	1.84 cP @Temperature 0.000 °C	1.84 cP @Temperature 32.0 °F	Dynamic, Concentration 0.05 kg FeCl3/kg
	1.94 cP @Temperature 0.000 °C	1.94 cP @Temperature 32.0 °F	Dynamic, Concentration 0.10 kg FeCl3/kg
	2.58 cP @Temperature -10.0 °C	2.58 cP @Temperature 14.0 °F	Dynamic, Concentration 0.10 kg FeCl3/kg
Molecular Weight	36.47 g/mol	36.47 g/mol	HCl
Vapor Pressure	0.00200 bar @Temperature -10.0 °C	1.50 torr @Temperature 14.0 °F	Concentration 0.10 kg HCl/kg
	0.00500 bar @Temperature 0.000 °C	3.75 torr @Temperature 32.0 °F	Concentration 0.10 kg HCl/kg

Physical Properties	0.00600 bar Metric	4.50 torr English	Comments Concentration 0.05 kg HCl/kg
	@Temperature 0.000 Â°C	@Temperature 32.0 Â°F	
	0.0110 bar	8.25 torr	Concentration 0.10 kg HCl/kg
	@Temperature 10.0 Â°C	@Temperature 50.0 Â°F	
	0.0120 bar	9.00 torr	Concentration 0.05 kg HCl/kg
	@Temperature 10.0 Â°C	@Temperature 50.0 Â°F	
	0.0210 bar	15.8 torr	Concentration 0.10 kg HCl/kg
	@Temperature 20.0 Â°C	@Temperature 68.0 Â°F	
	0.0220 bar	16.5 torr	Concentration 0.05 kg HCl/kg
	@Temperature 20.0 Â°C	@Temperature 68.0 Â°F	
	0.0650 bar	48.8 torr	Concentration 0.10 kg HCl/kg
	@Temperature 40.0 Â°C	@Temperature 104 Â°F	
	0.0700 bar	52.5 torr	Concentration 0.05 kg HCl/kg
	@Temperature 40.0 Â°C	@Temperature 104 Â°F	
	0.170 bar	128 torr	Concentration 0.10 kg HCl/kg
	@Temperature 60.0 Â°C	@Temperature 140 Â°F	
	0.190 bar	143 torr	Concentration 0.05 kg HCl/kg
	@Temperature 60.0 Â°C	@Temperature 140 Â°F	
	0.410 bar	308 torr	Concentration 0.10 kg HCl/kg
	@Temperature 80.0 Â°C	@Temperature 176 Â°F	
	0.450 bar	338 torr	Concentration 0.05 kg HCl/kg
	@Temperature 80.0 Â°C	@Temperature 176 Â°F	
	0.890 bar	668 torr	Concentration 0.10 kg HCl/kg
	@Temperature 100 Â°C	@Temperature 212 Â°F	
	0.970 bar	728 torr	Concentration 0.05 kg HCl/kg
	@Temperature 100 Â°C	@Temperature 212 Â°F	

Physical Properties	0.063 dynes/cm Metric	0.063 dynes/cm English	Comments
	@Temperature 100 Å°C	@Temperature 212 Å°F	
	0.063 dynes/cm	0.063 dynes/cm	Concentration 0.10 HCl/kg
	@Temperature 100 Å°C	@Temperature 212 Å°F	
	0.064 dynes/cm	0.064 dynes/cm	Concentration 0.05 HCl/kg
	@Temperature 80.0 Å°C	@Temperature 176 Å°F	
	0.065 dynes/cm	0.065 dynes/cm	Concentration 0.10 HCl/kg
	@Temperature 80.0 Å°C	@Temperature 176 Å°F	
	0.067 dynes/cm	0.067 dynes/cm	Concentration 0.05 HCl/kg
	@Temperature 60.0 Å°C	@Temperature 140 Å°F	
	0.068 dynes/cm	0.068 dynes/cm	Concentration 0.10 HCl/kg
	@Temperature 60.0 Å°C	@Temperature 140 Å°F	
	0.070 dynes/cm	0.070 dynes/cm	Concentration 0.05 HCl/kg
	@Temperature 40.0 Å°C	@Temperature 104 Å°F	
	0.070 dynes/cm	0.070 dynes/cm	Concentration 0.10 HCl/kg
	@Temperature 40.0 Å°C	@Temperature 104 Å°F	
	0.072 dynes/cm	0.072 dynes/cm	Concentration 0.10 HCl/kg
	@Temperature 20.0 Å°C	@Temperature 68.0 Å°F	
	0.073 dynes/cm	0.073 dynes/cm	Concentration 0.10 HCl/kg
	@Temperature 10.0 Å°C	@Temperature 50.0 Å°F	
	0.073 dynes/cm	0.073 dynes/cm	Concentration 0.05 HCl/kg
	@Temperature 20.0 Å°C	@Temperature 68.0 Å°F	
	0.074 dynes/cm	0.074 dynes/cm	Concentration 0.10 HCl/kg
	@Temperature 0.000 Å°C	@Temperature 32.0 Å°F	
	0.074 dynes/cm	0.074 dynes/cm	Concentration 0.05 HCl/kg
	@Temperature 10.0 Å°C	@Temperature 50.0 Å°F	

Physical Properties	0.075 dynes/cm Metric	0.075 dynes/cm English	Comments
	@Temperature -10.0 Â°C	@Temperature 14.0 Â°F	Concentration 0.10 HCl/kg
	0.075 dynes/cm @Temperature 0.000 Â°C	0.075 dynes/cm @Temperature 32.0 Â°F	Concentration 0.05 HCl/kg
	0.076 dynes/cm @Temperature -10.0 Â°C	0.076 dynes/cm @Temperature 14.0 Â°F	Concentration 0.05 HCl/kg

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