

Solvay Chemicals Hydrochloric Acid 31% - Technical Grade (11 wt% - 20 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: 1789Information provided by Solvay

Order this product through the following link:

http://www.lookpolymers.com/polymer_Solvay-Chemicals-Hydrochloric-Acid-31-Technical-Grade-11-wt-20-wt-Concentration.php

Physical Properties	Metric	English	Comments
Density	1.0188 g/cc @Temperature 100 °C	0.036806 lb/in³ @Temperature 212 °F	Concentration 0.12 kg HCl/kg
	1.0286 g/cc @Temperature 100 °C	0.037161 lb/in³ @Temperature 212 °F	Concentration 0.14 kg HCl/kg
	1.0383 g/cc @Temperature 100 °C	0.037511 lb/in³ @Temperature 212 °F	Concentration 0.16 kg HCl/kg
	1.0479 g/cc @Temperature 100 °C	0.037858 lb/in³ @Temperature 212 °F	Concentration 0.18 kg HCl/kg
	1.0497 g/cc @Temperature 40.0 °C	0.037923 lb/in³ @Temperature 104 °F	Concentration 0.12 kg HCl/kg
	1.0574 g/cc @Temperature 100 °C	0.038201 lb/in³ @Temperature 212 °F	Concentration 0.20 kg HCl/kg
	1.0594 g/cc @Temperature 40.0 °C	0.038273 lb/in³ @Temperature 104 °F	Concentration 0.14 kg HCl/kg
	1.0654 g/cc @Temperature -5.00 °C	0.038490 lb/in³ @Temperature 23.0 °F	Concentration 0.12 kg HCl/kg
	1.0692 g/cc @Temperature 40.0 °C	0.038627 lb/in³ @Temperature 104 °F	Concentration 0.16 kg HCl/kg
	1.0754 g/cc @Temperature -5.00	0.038851 lb/in³	Concentration 0.14 kg HCl/kg

Physical Properties	°C Metric	@Temperature 23.0 °F English	Comments
	1.079 g/cc @Temperature 40.0 °C	0.03898 lb/in³ @Temperature 104 °F	Concentration 0.18 kg HCl/kg
	1.0864 g/cc @Temperature -5.00 °C	0.039249 lb/in³ @Temperature 23.0 °F	Concentration 0.16 kg HCl/kg
	1.0975 g/cc @Temperature -5.00 °C	0.039650 lb/in³ @Temperature 23.0 °F	Concentration 0.18 kg HCl/kg
	1.1087 g/cc @Temperature -5.00 °C	0.040054 lb/in³ @Temperature 23.0 °F	Concentration 0.20 kg HCl/kg
	1.888 g/cc @Temperature 40.0 °C	0.06821 lb/in³ @Temperature 104 °F	Concentration 0.20 kg HCl/kg
Viscosity	0.38 cP @Temperature 100 °C	0.38 cP @Temperature 212 °F	Dynamic, Concentration 0.15 kg FeCl3/kg
	0.45 cP @Temperature 100 °C	0.45 cP @Temperature 212 °F	Dynamic, Concentration 0.20 kg FeCl3/kg
	0.48 cP @Temperature 80.0 °C	0.48 cP @Temperature 176 °F	Dynamic, Concentration 0.15 kg FeCl3/kg
	0.56 cP @Temperature 80.0 °C	0.56 cP @Temperature 176 °F	Dynamic, Concentration 0.20 kg FeCl3/kg
	0.63 cP @Temperature 60.0 °C	0.63 cP @Temperature 140 °F	Dynamic, Concentration 0.15 kg FeCl3/kg
	0.72 cP @Temperature 60.0 °C	0.72 cP @Temperature 140 °F	Dynamic, Concentration 0.20 kg FeCl3/kg
	0.87 cP @Temperature 40.0 °C	0.87 cP @Temperature 104 °F	Dynamic, Concentration 0.15 kg FeCl3/kg
	0.98 cP @Temperature 40.0	0.98 cP	Dynamic, Concentration 0.20 kg FeCl3/kg

Physical Properties	°C Metric	@Temperature 104 °F English	Comments
	1.28 cP @Temperature 20.0 °C	1.28 cP @Temperature 68.0 °F	Dynamic, Concentration 0.15 kg FeCl3/kg
	1.39 cP @Temperature 20.0 °C	1.39 cP @Temperature 68.0 °F	Dynamic, Concentration 0.20 kg FeCl3/kg
	1.51 cP @Temperature 10.0 °C	1.51 cP @Temperature 50.0 °F	Dynamic, Concentration 0.15 kg FeCl3/kg
	1.71 cP @Temperature 10.0 °C	1.71 cP @Temperature 50.0 °F	Dynamic, Concentration 0.20 kg FeCl3/kg
	2.02 cP @Temperature 0.000 °C	2.02 cP @Temperature 32.0 °F	Dynamic, Concentration 0.15 kg FeCl3/kg
	2.13 cP @Temperature 0.000 °C	2.13 cP @Temperature 32.0 °F	Dynamic, Concentration 0.20 kg FeCl3/kg
	2.64 cP @Temperature -10.0 °C	2.64 cP @Temperature 14.0 °F	Dynamic, Concentration 0.15 kg FeCl3/kg
	2.73 cP @Temperature -10.0 °C	2.73 cP @Temperature 14.0 °F	Dynamic, Concentration 0.20 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 0.15 kg HCl/kg
	0.00200 bar @Temperature -10.0 °C	1.50 torr @Temperature 14.0 °F	Concentration 0.20 kg HCl/kg
	0.00300 bar @Temperature 0.000 °C	2.25 torr @Temperature 32.0 °F	Concentration 0.20 kg HCl/kg
	0.00500 bar @Temperature 0.000 °C	3.75 torr @Temperature 32.0 °F	Concentration 0.15 kg HCl/kg

Physical Properties	Metric 0.00100 bar	English 5.25 torr	Comments
	@Temperature 10.0 Â°C	@Temperature 50.0 Â°F	Concentration 0.20 kg HCl/kg
	0.00900 bar	6.75 torr	Concentration 0.15 kg HCl/kg
	@Temperature 10.0 Â°C	@Temperature 50.0 Â°F	
	0.0140 bar	10.5 torr	Concentration 0.20 kg HCl/kg
	@Temperature 20.0 Â°C	@Temperature 68.0 Â°F	
	0.0170 bar	12.8 torr	Concentration 0.15 kg HCl/kg
	@Temperature 20.0 Â°C	@Temperature 68.0 Â°F	
	0.0460 bar	34.5 torr	Concentration 0.20 kg HCl/kg
	@Temperature 40.0 Â°C	@Temperature 104 Â°F	
	0.0550 bar	41.3 torr	Concentration 0.15 kg HCl/kg
	@Temperature 40.0 Â°C	@Temperature 104 Â°F	
	0.130 bar	97.5 torr	Concentration 0.20 kg HCl/kg
	@Temperature 60.0 Â°C	@Temperature 140 Â°F	
	0.150 bar	113 torr	Concentration 0.15 kg HCl/kg
	@Temperature 60.0 Â°C	@Temperature 140 Â°F	
	0.330 bar	248 torr	Concentration 0.20 kg HCl/kg
	@Temperature 80.0 Â°C	@Temperature 176 Â°F	
	0.370 bar	278 torr	Concentration 0.15 kg HCl/kg
	@Temperature 80.0 Â°C	@Temperature 176 Â°F	
	0.750 bar	563 torr	Concentration 0.20 kg HCl/kg
	@Temperature 100 Â°C	@Temperature 212 Â°F	
	0.810 bar	608 torr	Concentration 0.15 kg HCl/kg
	@Temperature 100 Â°C	@Temperature 212 Â°F	
Surface Tension	0.064 dynes/cm	0.064 dynes/cm	Concentration 0.15 HCl/kg
	@Temperature 100 Â°C	@Temperature 212 Â°F	

Physical Properties	0.064 dynes/cm Metric	0.064 dynes/cm English	Comments
	@Temperature 100 °C	@Temperature 212 °F	
	0.066 dynes/cm @Temperature 80.0 °C	0.066 dynes/cm @Temperature 176 °F	Concentration 0.15 HCl/kg
	0.067 dynes/cm @Temperature 80.0 °C	0.067 dynes/cm @Temperature 176 °F	Concentration 0.20 HCl/kg
	0.068 dynes/cm @Temperature 60.0 °C	0.068 dynes/cm @Temperature 140 °F	Concentration 0.15 HCl/kg
	0.068 dynes/cm @Temperature 60.0 °C	0.068 dynes/cm @Temperature 140 °F	Concentration 0.20 HCl/kg
	0.070 dynes/cm @Temperature 40.0 °C	0.070 dynes/cm @Temperature 104 °F	Concentration 0.15 HCl/kg
	0.070 dynes/cm @Temperature 40.0 °C	0.070 dynes/cm @Temperature 104 °F	Concentration 0.20 HCl/kg
	0.072 dynes/cm @Temperature 20.0 °C	0.072 dynes/cm @Temperature 68.0 °F	Concentration 0.15 HCl/kg
	0.072 dynes/cm @Temperature 20.0 °C	0.072 dynes/cm @Temperature 68.0 °F	Concentration 0.20 HCl/kg
	0.072 dynes/cm @Temperature 10.0 °C	0.072 dynes/cm @Temperature 50.0 °F	Concentration 0.20 HCl/kg
	0.073 dynes/cm @Temperature 0.000 °C	0.073 dynes/cm @Temperature 32.0 °F	Concentration 0.15 HCl/kg
	0.073 dynes/cm @Temperature 0.000 °C	0.073 dynes/cm @Temperature 32.0 °F	Concentration 0.20 HCl/kg
	0.073 dynes/cm @Temperature 10.0 °C	0.073 dynes/cm @Temperature 50.0 °F	Concentration 0.15 HCl/kg

Physical Properties	Metric dynes/cm @Temperature -10.0 Â°C	English dynes/cm @Temperature 14.0 Â°F	Comments
	0.074 dynes/cm @Temperature -10.0 Â°C	0.074 dynes/cm @Temperature 14.0 Â°F	Concentration 0.20 HCl/kg

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