

## Solvay Chemicals Hydrochloric Acid 31% - Technical Grade (31 wt% - 36 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-31-wt-36-wt-Concentration.php](http://www.lookpolymers.com/polymer_Solvay-Chemicals-Hydrochloric-Acid-31-Technical-Grade-31-wt-36-wt-Concentration.php)

Physical Properties	Metric	English	Comments
Density	1.103 g/cc	0.03985 lb/in <sup>3</sup>	Concentration 0.30 kg HCl/kg
	@Temperature 100 Å°C	@Temperature 212 Å°F	
	1.1126 g/cc	0.040195 lb/in <sup>3</sup>	Concentration 0.32 kg HCl/kg
	@Temperature 100 Å°C	@Temperature 212 Å°F	
	1.1216 g/cc	0.040520 lb/in <sup>3</sup>	Concentration 0.34 kg HCl/kg
	@Temperature 100 Å°C	@Temperature 212 Å°F	
	1.1305 g/cc	0.040842 lb/in <sup>3</sup>	Concentration 0.36 kg HCl/kg
	@Temperature 100 Å°C	@Temperature 212 Å°F	
	1.1376 g/cc	0.041098 lb/in <sup>3</sup>	Concentration 0.30 kg HCl/kg
	@Temperature 40.0 Å°C	@Temperature 104 Å°F	
	1.1393 g/cc	0.041160 lb/in <sup>3</sup>	Concentration 0.38 kg HCl/kg
	@Temperature 100 Å°C	@Temperature 212 Å°F	
	1.1471 g/cc	0.041442 lb/in <sup>3</sup>	Concentration 0.32 kg HCl/kg
	@Temperature 40.0 Å°C	@Temperature 104 Å°F	
	1.1566 g/cc	0.041785 lb/in <sup>3</sup>	Concentration 0.34 kg HCl/kg
	@Temperature 40.0 Å°C	@Temperature 104 Å°F	
	1.1648 g/cc	0.042081 lb/in <sup>3</sup>	Concentration 0.30 kg HCl/kg
	@Temperature -5.00 Å°C	@Temperature 23.0 Å°F	
	1.1661 g/cc	0.042128 lb/in <sup>3</sup>	Concentration 0.36 kg HCl/kg
	@Temperature 40.0		

Physical Properties	°C Metric	@Temperature 104 °F English	Comments
	1.1754 g/cc  @Temperature 40.0 °C	0.042464 lb/in <sup>3</sup>  @Temperature 104 °F	Concentration 0.38 kg HCl/kg
	1.1814 g/cc  @Temperature -5.00 °C	0.042681 lb/in <sup>3</sup>  @Temperature 23.0 °F	Concentration 0.32 kg HCl/kg
	1.1929 g/cc  @Temperature -5.00 °C	0.043096 lb/in <sup>3</sup>  @Temperature 23.0 °F	Concentration 0.34 kg HCl/kg
	1.2043 g/cc  @Temperature -5.00 °C	0.043508 lb/in <sup>3</sup>  @Temperature 23.0 °F	Concentration 0.36 kg HCl/kg
	1.2156 g/cc  @Temperature -5.00 °C	0.043916 lb/in <sup>3</sup>  @Temperature 23.0 °F	Concentration 0.38 kg HCl/kg
Viscosity	0.82 cP  @Temperature 80.0 °C	0.82 cP  @Temperature 176 °F	Dynamic, Concentration 0.30 kg FeCl <sub>3</sub> /kg
	1.0 cP  @Temperature 60.0 °C	1.0 cP  @Temperature 140 °F	Dynamic, Concentration 0.30 kg FeCl <sub>3</sub> /kg
	1.1 cP  @Temperature 60.0 °C	1.1 cP  @Temperature 140 °F	Dynamic, Concentration 0.33 kg FeCl <sub>3</sub> /kg
	1.27 cP  @Temperature 40.0 °C	1.27 cP  @Temperature 104 °F	Dynamic, Concentration 0.30 kg FeCl <sub>3</sub> /kg
	1.39 cP  @Temperature 40.0 °C	1.39 cP  @Temperature 104 °F	Dynamic, Concentration 0.33 kg FeCl <sub>3</sub> /kg
	1.51 cP  @Temperature 40.0 °C	1.51 cP  @Temperature 104 °F	Dynamic, Concentration 0.36 kg FeCl <sub>3</sub> /kg
	1.73 cP  @Temperature 20.0 °C	1.73 cP  @Temperature 68.0 °F	Dynamic, Concentration 0.30 kg FeCl <sub>3</sub> /kg
	1.87 cP	1.87 cP	

Physical Properties	Metric	English	Comments
	@Temperature 20.0 Â°C	@Temperature 68.0 Â°F	Dynamic, Concentration 0.33 kg FeCl3/kg
	2.04 cP	2.04 cP	Dynamic, Concentration 0.36 kg FeCl3/kg
	@Temperature 20.0 Â°C	@Temperature 68.0 Â°F	
	2.07 cP	2.07 cP	Dynamic, Concentration 0.30 kg FeCl3/kg
	@Temperature 10.0 Â°C	@Temperature 50.0 Â°F	
	2.23 cP	2.23 cP	Dynamic, Concentration 0.33 kg FeCl3/kg
	@Temperature 10.0 Â°C	@Temperature 50.0 Â°F	
	2.44 cP	2.44 cP	Dynamic, Concentration 0.36 kg FeCl3/kg
	@Temperature 10.0 Â°C	@Temperature 50.0 Â°F	
	2.54 cP	2.54 cP	Dynamic, Concentration 0.30 kg FeCl3/kg
	@Temperature 0.000 Â°C	@Temperature 32.0 Â°F	
	2.72 cP	2.72 cP	Dynamic, Concentration 0.33 kg FeCl3/kg
	@Temperature 0.000 Â°C	@Temperature 32.0 Â°F	
	2.98 cP	2.98 cP	Dynamic, Concentration 0.36 kg FeCl3/kg
	@Temperature 0.000 Â°C	@Temperature 32.0 Â°F	
	3.21 cP	3.21 cP	Dynamic, Concentration 0.30 kg FeCl3/kg
	@Temperature -10.0 Â°C	@Temperature 14.0 Â°F	
	3.42 cP	3.42 cP	Dynamic, Concentration 0.33 kg FeCl3/kg
	@Temperature -10.0 Â°C	@Temperature 14.0 Â°F	
	3.74 cP	3.74 cP	Dynamic, Concentration 0.36 kg FeCl3/kg
	@Temperature -10.0 Â°C	@Temperature 14.0 Â°F	
Molecular Weight	36.47 g/mol	36.47 g/mol	HCl
Vapor Pressure	0.00200 bar	1.50 torr	Concentration 0.30 kg HCl/kg
	@Temperature -10.0 Â°C	@Temperature 14.0 Â°F	
	0.00500 bar	3.75 torr	

Physical Properties	@Temperature 0.000 Metric Â°C	@Temperature 32.0 Â°F English	Concentration 0.30 kg HCl/kg Comments
	0.00600 bar	4.50 torr	Concentration 0.33 kg HCl/kg
	@Temperature -10.0 Â°C	@Temperature 14.0 Â°F	
	0.0110 bar	8.25 torr	Concentration 0.30 kg HCl/kg
	@Temperature 10.0 Â°C	@Temperature 50.0 Â°F	
	0.0140 bar	10.5 torr	Concentration 0.33 kg HCl/kg
	@Temperature 0.000 Â°C	@Temperature 32.0 Â°F	
	0.0210 bar	15.8 torr	Concentration 0.36 kg HCl/kg
	@Temperature -10.0 Â°C	@Temperature 14.0 Â°F	
	0.0220 bar	16.5 torr	Concentration 0.30 kg HCl/kg
	@Temperature 20.0 Â°C	@Temperature 68.0 Â°F	
	0.0270 bar	20.3 torr	Concentration 0.33 kg HCl/kg
	@Temperature 10.0 Â°C	@Temperature 50.0 Â°F	
	0.0430 bar	32.3 torr	Concentration 0.36 kg HCl/kg
	@Temperature 0.000 Â°C	@Temperature 32.0 Â°F	
	0.0510 bar	38.3 torr	Concentration 0.33 kg HCl/kg
	@Temperature 20.0 Â°C	@Temperature 68.0 Â°F	
	0.0780 bar	58.5 torr	Concentration 0.30 kg HCl/kg
	@Temperature 40.0 Â°C	@Temperature 104 Â°F	
	0.0820 bar	61.5 torr	Concentration 0.36 kg HCl/kg
	@Temperature 10.0 Â°C	@Temperature 50.0 Â°F	
	0.150 bar	113 torr	Concentration 0.36 kg HCl/kg
	@Temperature 20.0 Â°C	@Temperature 68.0 Â°F	
	0.160 bar	120 torr	Concentration 0.33 kg HCl/kg
	@Temperature 40.0 Â°C	@Temperature 104 Â°F	

Physical Properties	0.240 bar Metric	180 torr English	Comments Concentration 0.30 kg HCl/kg
	@Temperature 60.0 Â°C	@Temperature 140 Â°F	
	0.460 bar	345 torr	Concentration 0.33 kg HCl/kg
	@Temperature 60.0 Â°C	@Temperature 140 Â°F	
	0.470 bar	353 torr	Concentration 0.36 kg HCl/kg
	@Temperature 40.0 Â°C	@Temperature 104 Â°F	
	0.630 bar	473 torr	Concentration 0.30 kg HCl/kg
	@Temperature 80.0 Â°C	@Temperature 176 Â°F	
Surface Tension	0.066 dynes/cm	0.066 dynes/cm	Concentration 0.30 HCl/kg
	@Temperature 80.0 Â°C	@Temperature 176 Â°F	
	0.067 dynes/cm	0.067 dynes/cm	Concentration 0.30 HCl/kg
	@Temperature 60.0 Â°C	@Temperature 140 Â°F	
	0.067 dynes/cm	0.067 dynes/cm	Concentration 0.33 HCl/kg
	@Temperature 60.0 Â°C	@Temperature 140 Â°F	
	0.068 dynes/cm	0.068 dynes/cm	Concentration 0.33 HCl/kg
	@Temperature 40.0 Â°C	@Temperature 104 Â°F	
	0.068 dynes/cm	0.068 dynes/cm	Concentration 0.36 HCl/kg
	@Temperature 40.0 Â°C	@Temperature 104 Â°F	
	0.069 dynes/cm	0.069 dynes/cm	Concentration 0.30 HCl/kg
	@Temperature 40.0 Â°C	@Temperature 104 Â°F	
	0.070 dynes/cm	0.070 dynes/cm	Concentration 0.33 HCl/kg
	@Temperature 10.0 Â°C	@Temperature 50.0 Â°F	
	0.070 dynes/cm	0.070 dynes/cm	Concentration 0.36 HCl/kg
	@Temperature 10.0 Â°C	@Temperature 50.0 Â°F	
	0.070 dynes/cm	0.070 dynes/cm	Concentration 0.30 HCl/kg
	@Temperature 20.0	@Temperature 68.0 Â°F	

Physical Properties	°C Metric	English	Comments
	0.070 dynes/cm	0.070 dynes/cm	
	@Temperature 20.0 °C	@Temperature 68.0 °F	Concentration 0.33 HCl/kg
	0.070 dynes/cm	0.070 dynes/cm	
	@Temperature 20.0 °C	@Temperature 68.0 °F	Concentration 0.36 HCl/kg
	0.071 dynes/cm	0.071 dynes/cm	
	@Temperature 10.0 °C	@Temperature 50.0 °F	Concentration 0.30 HCl/kg
	0.071 dynes/cm	0.071 dynes/cm	
	@Temperature 0.000 °C	@Temperature 32.0 °F	Concentration 0.30 HCl/kg

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