

Solvay Chemicals Epichlorohydrin

Category : Fluid

Material Notes:

Epichlorohydrin is a chemical intermediate, mainly dedicated to the manufacturing of epoxy resins used in Paints & coatings, Composites, Adhesives and Electronics. It is also used in non-epoxy applications, such as Pulp & paper chemicals, Water treatment and Healthcare products. Solvay has developed and patented a new glycerin-based process for the production of epichlorohydrin, called Epicorol®.

EINECS Number: 203-439-8/CAS Number: 106-89-8/UN number: 2023Information provided by Solvay

Order this product through the following link:

http://www.lookpolymers.com/polymer_Solvay-Chemicals-Epichlorohydrin.php

Physical Properties	Metric	English	Comments
Density	1.054 g/cc @Temperature 120 °C	0.03808 lb/in³ @Temperature 248 °F	
	1.067 g/cc @Temperature 110 °C	0.03855 lb/in³ @Temperature 230 °F	
	1.08 g/cc @Temperature 100 °C	0.0390 lb/in³ @Temperature 212 °F	
	1.093 g/cc @Temperature 90.0 °C	0.03949 lb/in³ @Temperature 194 °F	
	1.106 g/cc @Temperature 80.0 °C	0.03996 lb/in³ @Temperature 176 °F	
	1.119 g/cc @Temperature 70.0 °C	0.04043 lb/in³ @Temperature 158 °F	
	1.131 g/cc @Temperature 60.0 °C	0.04086 lb/in³ @Temperature 140 °F	
	1.144 g/cc @Temperature 50.0 °C	0.04133 lb/in³ @Temperature 122 °F	
	1.156 g/cc @Temperature 40.0 °C	0.04176 lb/in³ @Temperature 104 °F	
	1.162 g/cc	0.04198 lb/in³	

Physical Properties	Metric @Temperature 35.0 Â°C	English @Temperature 95.0 Â°F	Comments
	1.168 g/cc	0.04220 lb/in³	
	@Temperature 30.0 Â°C	@Temperature 86.0 Â°F	
	1.174 g/cc	0.04241 lb/in³	
	@Temperature 25.0 Â°C	@Temperature 77.0 Â°F	
	1.181 g/cc	0.04267 lb/in³	
	@Temperature 20.0 Â°C	@Temperature 68.0 Â°F	
	1.187 g/cc	0.04288 lb/in³	
	@Temperature 15.0 Â°C	@Temperature 59.0 Â°F	
	1.199 g/cc	0.04332 lb/in³	
	@Temperature 5.00 Â°C	@Temperature 41.0 Â°F	
	1.206 g/cc	0.04357 lb/in³	
	@Temperature 0.000 Â°C	@Temperature 32.0 Â°F	
	1.93 g/cc	0.0697 lb/in³	
	@Temperature 10.0 Â°C	@Temperature 50.0 Â°F	
Solubility in Water	1.5 %	1.5 %	in organic
	6.5 %	6.5 %	
Viscosity	0.42 cP @Temperature 120 Â°C	0.42 cP @Temperature 248 Â°F	
	0.44 cP @Temperature 110 Â°C	0.44 cP @Temperature 230 Â°F	
	0.48 cP @Temperature 100 Â°C	0.48 cP @Temperature 212 Â°F	
	0.52 cP @Temperature 90.0 Â°C	0.52 cP @Temperature 194 Â°F	
	0.57 cP	0.57 cP	

Physical Properties	@Temperature 80.0 Metric Â°C	@Temperature 176 Â°F	Comments
	0.62 cP @Temperature 70.0 Â°C	0.62 cP @Temperature 158 Â°F	
	0.69 cP @Temperature 60.0 Â°C	0.69 cP @Temperature 140 Â°F	
	0.76 cP @Temperature 50.0 Â°C	0.76 cP @Temperature 122 Â°F	
	0.84 cP @Temperature 40.0 Â°C	0.84 cP @Temperature 104 Â°F	
	0.90 cP @Temperature 35.0 Â°C	0.90 cP @Temperature 95.0 Â°F	
	0.96 cP @Temperature 30.0 Â°C	0.96 cP @Temperature 86.0 Â°F	
	1.03 cP @Temperature 25.0 Â°C	1.03 cP @Temperature 77.0 Â°F	
	1.12 cP @Temperature 20.0 Â°C	1.12 cP @Temperature 68.0 Â°F	
	1.21 cP @Temperature 15.0 Â°C	1.21 cP @Temperature 59.0 Â°F	
	1.31 cP @Temperature 10.0 Â°C	1.31 cP @Temperature 50.0 Â°F	
	1.43 cP @Temperature 5.00 Â°C	1.43 cP @Temperature 41.0 Â°F	
	1.55 cP @Temperature 0.000 Â°C	1.55 cP @Temperature 32.0 Â°F	

Molecular Weight Physical Properties	92.53 g/mol Metric	92.53 g/mol English	Comments
Vapor Pressure	0.00456 bar @Temperature 0.000 Â°C	3.42 torr @Temperature 32.0 Â°F	19 g/m ³ concentration of saturated vapor
	0.00648 bar @Temperature 5.00 Â°C	4.86 torr @Temperature 41.0 Â°F	26 g/m ³ concentration of saturated vapor
	0.00882 bar @Temperature 10.0 Â°C	6.61 torr @Temperature 50.0 Â°F	35 g/m ³ concentration of saturated vapor
	0.0122 bar @Temperature 15.0 Â°C	9.12 torr @Temperature 59.0 Â°F	47 g/m ³ concentration of saturated vapor
	0.0165 bar @Temperature 20.0 Â°C	12.4 torr @Temperature 68.0 Â°F	63 g/m ³ concentration of saturated vapor
	0.0220 bar @Temperature 25.0 Â°C	16.5 torr @Temperature 77.0 Â°F	82 g/m ³ concentration of saturated vapor
	0.0290 bar @Temperature 30.0 Â°C	21.7 torr @Temperature 86.0 Â°F	107 g/m ³ concentration of saturated vapor
	0.0379 bar @Temperature 35.0 Â°C	28.4 torr @Temperature 95.0 Â°F	137 g/m ³ concentration of saturated vapor
	0.0491 bar @Temperature 40.0 Â°C	36.9 torr @Temperature 104 Â°F	174 g/m ³ concentration of saturated vapor
	0.0798 bar @Temperature 50.0 Â°C	59.9 torr @Temperature 122 Â°F	275 g/m ³ concentration of saturated vapor
	0.126 bar @Temperature 60.0 Â°C	94.2 torr @Temperature 140 Â°F	420 g/m ³ concentration of saturated vapor
	0.192 bar @Temperature 70.0 Â°C	144 torr @Temperature 158 Â°F	622 g/m ³ concentration of saturated vapor
	0.285 bar		

Physical Properties	Metric @Temperature 80.0 °C	214 torr English	898 g/m ³ concentration of saturated vapor
	0.412 bar @Temperature 90.0 °C	309 torr @Temperature 194 °F	1264 g/m ³ concentration of saturated vapor
	0.583 bar @Temperature 100 °C	437 torr @Temperature 212 °F	1739 g/m ³ concentration of saturated vapor
	0.807 bar @Temperature 110 °C	605 torr @Temperature 230 °F	2344 g/m ³ concentration of saturated vapor
	1.09 bar @Temperature 120 °C	821 torr @Temperature 248 °F	3101 g/m ³ concentration of saturated vapor
Surface Tension	0.035 dynes/cm	0.035 dynes/cm	

Thermal Properties	Metric	English	Comments
Heat of Vaporization	420 J/g @Temperature 120 °C	181 BTU/lb @Temperature 248 °F	Latent
	427 J/g @Temperature 110 °C	184 BTU/lb @Temperature 230 °F	Latent
	435 J/g @Temperature 100 °C	187 BTU/lb @Temperature 212 °F	Latent
	442 J/g @Temperature 90.0 °C	190 BTU/lb @Temperature 194 °F	Latent
	449 J/g @Temperature 80.0 °C	193 BTU/lb @Temperature 176 °F	Latent
	456 J/g @Temperature 70.0 °C	196 BTU/lb @Temperature 158 °F	Latent
	462 J/g @Temperature 60.0 °C	199 BTU/lb @Temperature 140 °F	Latent
	469 J/g @Temperature 50.0 °C	202 BTU/lb @Temperature 122 °F	Latent

Thermal Properties	Metric	English	Comments
Electrical Properties	Metric	English	Comments
Dielectric Constant	20.8 @Temperature 21.5 °C	20.8 @Temperature 70.7 °F	liquid

Chemical Properties	Metric	English	Comments
Critical Pressure	49.0 bar	36800 torr	
Critical Temperature	327 °C	621 °F	

Contact Songhan Plastic Technology Co.,Ltd.

Website : www.lookpolymers.com

Email : sales@lookpolymers.com

Tel : +86 021-51131842

Mobile : +86 13061808058

Skype : lookpolymers

Address : United North Road 215,Fengxian District, Shanghai City,China