Solvay Chemicals Allyl chloride High purity â€“ Non stabilized 3-chloropropene

Category : Fluid

Material Notes:

Allyl chloride is mainly used in the manufacture of epichlorohydrin. It is also used in the production of allylic ethers, esters, silanes and quaternary ammonium derivatives.EINECS Number: 203-457-6/CAS Number: 107-05-1/UN number: 1100Information provided by Solvay

Order this product through the following link:
http://www.lookpolymers.com/polymer_Solvay-Chemicals-Allyl-chloride-High-purity-Non-stabilized-3-chloropropene.php

Physical Properties	Metric	English	Comments
Density	0.7911 g/cc @Pressure 0.7726 MPa, Temperature 120 Â°C	0.02858 lb/inÂ³ @Pressure 112.1 psi, Temperature 248 Â°F	
	0.8084 g/cc @Pressure 0.6201 MPa, Temperature 110 Â°C	0.02921 lb/inÂ³ @Pressure 89.94 psi, Temperature 230 Â°F	
	0.825 g/cc @Pressure 0.4912 MPa, Temperature 100 Â°C	0.0298 lb/inÂ³ @Pressure 71.24 psi, Temperature 212 Â°F	
	0.8411 g/cc @Pressure 0.3835 MPa, Temperature 90.0 Â°C	0.03039 lb/inÂ³ @Pressure 55.62 psi, Temperature 194 Â°F	
	0.8565 g/cc @Pressure 0.2947 MPa, Temperature 80.0 Â°C	0.03094 lb/inÂ³ @Pressure 42.74 psi, Temperature 176 Â°F	
	0.8714 g/cc @Pressure 0.2226 MPa, Temperature 70.0 Â°C	0.03148 lb/inÂ³ @Pressure 32.29 psi, Temperature 158 Â°F	
	0.8859 g/cc @Pressure 0.1649 MPa, Temperature 60.0 Â°C	0.03201 lb/inÂ³ @Pressure 23.92 psi, Temperature 140 Â°F	
	0.8999 g/cc @Pressure 0.1196 MPa, Temperature 50.0 Â°C	0.03251 lb/inÂ³ @Pressure 17.35 psi, Temperature 122 Â°F	

Physical Properties	Metric	English	Comments
	0.9136 g/cc @Pressure 0.0848 MPa, Temperature 40.0 Â°C	0.03301 lb/inÂ³ @Pressure 12.3 psi, Temperature 104 Â°F	
	0.9203 g/cc @Pressure 0.0707 MPa, Temperature 35.0 Â°C	0.03325 lb/inÂ³ @Pressure 10.3 psi, Temperature 95.0 Â°F	
	0.9269 g/cc @Pressure 0.0585 MPa, Temperature 30.0 Â°C	0.03349 lb/inÂ³ @Pressure 8.48 psi, Temperature 86.0 Â°F	
	0.9334 g/cc @Pressure 0.0481 MPa, Temperature 25.0 Â°C	0.03372 lb/inÂ³ @Pressure 6.98 psi, Temperature 77.0 Â°F	
	0.9398 g/cc @Pressure 0.0392 MPa, Temperature 20.0 Â°C	0.03395 lb/inÂ³ @Pressure 5.69 psi, Temperature 68.0 Â°F	
	0.9462 g/cc @Pressure 0.0317 MPa, Temperature 15.0 Â°C	0.03418 lb/inÂ³ @Pressure 4.60 psi, Temperature 59.0 Â°F	
	0.9525 g/cc @Pressure 0.0254 MPa, Temperature 10.0 Â°C	0.03441 lb/inÂ³ @Pressure 3.68 psi, Temperature 50.0 Â°F	
	0.9587 g/cc @Pressure 0.0202 MPa, Temperature 5.00 Â°C	0.03464 lb/inÂ³ @Pressure 2.93 psi, Temperature 41.0 Â°F	
	0.9648 g/cc @Pressure 0.0159 MPa, Temperature 0.000 Â°C	0.03486 lb/inÂ³ @Pressure 2.31 psi, Temperature 32.0 Â°F	
	0.9709 g/cc @Pressure 0.0124 MPa, Temperature -5.00 Â°C	0.03508 lb/inÂ³ @Pressure 1.80 psi, Temperature 23.0 Â°F	
	0.9769 g/cc @Pressure 0.00950 MPa,	0.03529 lb/inÂ³ @Pressure 1.38 psi,	

Physical Properties	Metric	English	Comments
	Temperature -10.0 Â°C	Temperature 14.0 Â°F	
	0.9828 g/cc @Pressure 0.00720 MPa, Temperature -15.0 Â°C	0.03551 lb/inÂ³ @Pressure 1.04 psi, Temperature 5.00 Â°F	
	0.9887 g/cc @Pressure 0.00540 MPa, Temperature -20.0 Â°C	0.03572 lb/inÂ³ @Pressure 0.783 psi, Temperature -4.00 Â°F	
	1.0003 g/cc @Pressure 0.00290 MPa, Temperature -30.0 Â°C	0.036138 lb/inÂ³ @Pressure 0.421 psi, Temperature -22.0 Â°F	
Solubility in Water	0.36 %	0.36 %	
Viscosity	0.34 cP	0.34 cP	
Molecular Weight	76.53 g/mol	76.53 g/mol	
Vapor Pressure	0.400 bar	300 torr	
Surface Tension	0.023 dynes/cm	0.023 dynes/cm	

Thermal Properties	Metric	English	Comments
Specific Heat Capacity	0.950 J/g-Â°C	0.227 BTU/lb-Â°F	vapor
	1.50 J/g-Â°C	0.359 BTU/lb-Â°F	liquid
Melting Point	-135 Â°C	-211 Â°F	Freezing Point
Boiling Point	43.0 Â°C	109 Â°F	Azeotrope with water
	45.0 Â°C @Pressure 1.013 MPa	113 Â°F @Pressure 146.9 psi	
Decomposition Temperature	>= 80.0 Â°C	>= 176 Â°F	
Flash Point	-27.0 Â°C	-16.6 Â°F	TAG closed cup

Electrical Properties	Metric	English	Comments
Dielectric Constant	1.013 @Temperature 19.0 Â°C	1.013 @Temperature 66.2 Â°F	vapor
	8.2	8.2	liquid

Electrical Properties	Metric	English	Comments
	@Temperature 20.0 Â°C	@Temperature 68.0 Â°F	

Chemical Properties	Metric	English	Comments
Critical Pressure	48.0 bar	36000 torr	
Critical Temperature	241 Â°C	466 Â°F	

Descriptive Properties	Value	Comments
Appearance	Clear liquid, free from visible matter or particles	
Auto-ignition temperature	>392Â°C	
Coefficient of volume expansion	0.0014	K⁻¹
Combustion heat	24 kJ/g	
Composition	<100 mg/kg	Water, ASTM D3401, ASTM E1064
	>99%	Allyl Chloride - assay
	22 g/kg	Azetrope with water, content
Flammability limits	3.3-11.2%	
Latent heat of evaporation	0.37 kJ/g	45Â°C
Partition coefficient P	2.1 Log P o/w	n-octanol.water
Solubility of water in organic	0.8 g/kg	

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