

## Asahi Glass ASAHIKLIN AK-225 Hydrochlorofluorocarbon Solvent

Category : Fluid , Solvent

### Material Notes:

Asahilkin AK-225 is an environmentally sensible hydrochlorofluorocarbon (HCFC) designed to replace chlorofluorocarbon (CFC), perfluorocarbon (PFC), and other HCFCs with high ODP values in a variety of applications. Its selective solvency, physical properties, and ability to form azeotropes make AK-225 ideal for general and precision cleaning, as a carrier for silicone and halogenated lubricants, and as a coolant. It is thermally stable, nonflammable and recoverable by distillation with no decomposition. It has substantially lower global warming potential (GWP) than PFCs and HFCs and an extremely low ozone depletion potential (ODP). AK-225 is exempt from VOC regulations by the U.S. EPA as described in the Oct. 8, 1996 Federal Register. Information provided by Asahi Glass Company, Inc.

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_Asahi-Glass-ASAHIKLIN-AK-225-Hydrochlorofluorocarbon-Solvent.php](http://www.lookpolymers.com/polymer_Asahi-Glass-ASAHIKLIN-AK-225-Hydrochlorofluorocarbon-Solvent.php)

Physical Properties	Metric	English	Comments
Density	0.00778 g/cc	0.000281 lb/in <sup>3</sup>	Vapor (1 atm)
	@Temperature 60.0 °C	@Temperature 140 °F	
	1.55 g/cc	0.0560 lb/in <sup>3</sup>	Liquid
	@Temperature 25.0 °C	@Temperature 77.0 °F	
Solubility of Water	0.031 %	0.031 %	25°C
Solubility in Water	0.033 %	0.033 %	25°C
Viscosity	0.59 cP	0.59 cP	
	@Temperature 25.0 °C	@Temperature 77.0 °F	
Molecular Weight	202.94 g/mol	202.94 g/mol	
Vapor Pressure	0.378 bar	284 torr	
	@Temperature 25.0 °C	@Temperature 77.0 °F	
Surface Tension	16.2 dynes/cm	16.2 dynes/cm	25°C

Thermal Properties	Metric	English	Comments
Heat of Vaporization	145 J/g	62.3 BTU/lb	b.p.
Specific Heat Capacity	0.724 J/g-°C	0.173 BTU/lb-°F	Vapor (1atm)
	@Temperature 60.0 °C	@Temperature 140 °F	
	1.046 J/g-°C	0.2500 BTU/lb-°F	Liquid
	@Temperature 25.0 °C	@Temperature 77.0 °F	
Melting Point	-131 °C	-204 °F	

Thermal Properties	Metric	English	Comments
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Optical Properties	Metric	English	Comments
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Refractive Index	1.326	1.326	
	@Temperature 23.0 °C	@Temperature 73.4 °F	

Electrical Properties	Metric	English	Comments
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Dielectric Constant	4.14	4.14	
	@Frequency 1e+6 Hz	@Frequency 1e+6 Hz	

Chemical Properties	Metric	English	Comments
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Critical Pressure	29.62 bar	22220 torr	
Critical Temperature	208 °C	406 °F	
Critical Density	0.558 g/cc	0.0202 lb/in <sup>3</sup>	

Descriptive Properties	Value	Comments
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Global Warming Potential (CO2=1, 100yr ITH)	370	
KB Value	31	
Ozone Depletion Potential (CFC-11 = 1.0)	0.03	
Ratio of Specific Heat Cp/Cv 60C 1atm	1.076	
Relative Evaporation Rate (ether=100)	90	
Solubility Parameter	7.3	

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