

## Solvay Chemicals Perchloroethylene

Category : Fluid , Solvent

### Material Notes:

Perchloroethylene is a non-flammable product EINECS Number: 204-825-9/CAS Number: 127-18-4/UN number: 1897 Information provided by Solvay

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_Solvay-Chemicals-Perchloroethylene.php](http://www.lookpolymers.com/polymer_Solvay-Chemicals-Perchloroethylene.php)

Physical Properties	Metric	English	Comments
Density	1.617 - 1.621 g/cc	0.05842 - 0.05856 lb/in <sup>3</sup>	D <sub>25/25</sub>
	1.474 g/cc @Temperature 110 Â°C	0.05325 lb/in <sup>3</sup> @Temperature 230 Â°F	
	1.475 g/cc @Temperature 120 Â°C	0.05329 lb/in <sup>3</sup> @Temperature 248 Â°F	
	1.49 g/cc @Temperature 100 Â°C	0.0538 lb/in <sup>3</sup> @Temperature 212 Â°F	
	1.507 g/cc @Temperature 90.0 Â°C	0.05444 lb/in <sup>3</sup> @Temperature 194 Â°F	
	1.523 g/cc @Temperature 80.0 Â°C	0.05502 lb/in <sup>3</sup> @Temperature 176 Â°F	
	1.54 g/cc @Temperature 70.0 Â°C	0.0556 lb/in <sup>3</sup> @Temperature 158 Â°F	
	1.557 g/cc @Temperature 60.0 Â°C	0.05625 lb/in <sup>3</sup> @Temperature 140 Â°F	
	1.573 g/cc @Temperature 50.0 Â°C	0.05683 lb/in <sup>3</sup> @Temperature 122 Â°F	
	1.59 g/cc @Temperature 40.0 Â°C	0.0574 lb/in <sup>3</sup> @Temperature 104 Â°F	
	1.598 g/cc	0.05773 lb/in <sup>3</sup>	

Physical Properties	Metric	English	Comments
	@Temperature 35.0 °C	@Temperature 95.0 °F	
	1.606 g/cc	0.05802 lb/in <sup>3</sup>	
	@Temperature 30.0 °C	@Temperature 86.0 °F	
	1.615 g/cc	0.05835 lb/in <sup>3</sup>	
	@Temperature 25.0 °C	@Temperature 77.0 °F	
	1.623 g/cc	0.05863 lb/in <sup>3</sup>	
	@Temperature 20.0 °C	@Temperature 68.0 °F	
	1.631 g/cc	0.05892 lb/in <sup>3</sup>	
	@Temperature 15.0 °C	@Temperature 59.0 °F	
	1.64 g/cc	0.0592 lb/in <sup>3</sup>	
	@Temperature 10.0 °C	@Temperature 50.0 °F	
	1.646 g/cc	0.05947 lb/in <sup>3</sup>	
	@Temperature 0.000 °C	@Temperature 32.0 °F	
	1.648 g/cc	0.05954 lb/in <sup>3</sup>	
	@Temperature 5.00 °C	@Temperature 41.0 °F	
Viscosity	0.41 cP	0.41 cP	Dynamic
	@Temperature 110 °C	@Temperature 230 °F	
	0.44 cP	0.44 cP	Dynamic
	@Temperature 100 °C	@Temperature 212 °F	
	0.48 cP	0.48 cP	Dynamic
	@Temperature 90.0 °C	@Temperature 194 °F	
	0.51 cP	0.51 cP	Dynamic
	@Temperature 80.0 °C	@Temperature 176 °F	
	0.56 cP	0.56 cP	Dynamic
	@Temperature 70.0 °C	@Temperature 158 °F	
	0.61 cP	0.61 cP	

Physical Properties	Metric	English	Dynamic Comments
	@Temperature 60.0 Â°C	@Temperature 140 Â°F	
	0.66 cP	0.66 cP	Dynamic
	@Temperature 50.0 Â°C	@Temperature 122 Â°F	
	0.68 cP	0.68 cP	Dynamic
	@Temperature 120 Â°C	@Temperature 248 Â°F	
	0.73 cP	0.73 cP	Dynamic
	@Temperature 40.0 Â°C	@Temperature 104 Â°F	
	0.76 cP	0.76 cP	Dynamic
	@Temperature 35.0 Â°C	@Temperature 95.0 Â°F	
	0.80 cP	0.80 cP	Dynamic
	@Temperature 30.0 Â°C	@Temperature 86.0 Â°F	
	0.84 cP	0.84 cP	Dynamic
	@Temperature 25.0 Â°C	@Temperature 77.0 Â°F	
	0.89 cP	0.89 cP	Dynamic
	@Temperature 20.0 Â°C	@Temperature 68.0 Â°F	
	0.94 cP	0.94 cP	Dynamic
	@Temperature 15.0 Â°C	@Temperature 59.0 Â°F	
	0.99 cP	0.99 cP	Dynamic
	@Temperature 10.0 Â°C	@Temperature 50.0 Â°F	
	1.05 cP	1.05 cP	Dynamic
	@Temperature 5.00 Â°C	@Temperature 41.0 Â°F	
	1.11 cP	1.11 cP	Dynamic
	@Temperature 0.000 Â°C	@Temperature 32.0 Â°F	
Molecular Weight	165.8 g/mol	165.8 g/mol	
Vapor Pressure	0.00600 bar	4.50 torr	
	@Temperature 0.000		

Physical Properties	°C Metric	@Temperature 32.0 °F English	Comments
	0.00800 bar	6.00 torr	
	@Temperature 5.00 °C	@Temperature 41.0 °F	
	0.0110 bar	8.25 torr	
	@Temperature 10.0 °C	@Temperature 50.0 °F	
	0.0140 bar	10.5 torr	
	@Temperature 15.0 °C	@Temperature 59.0 °F	
	0.0190 bar	14.3 torr	
	@Temperature 20.0 °C	@Temperature 68.0 °F	
	0.0250 bar	18.8 torr	
	@Temperature 25.0 °C	@Temperature 77.0 °F	
	0.0320 bar	24.0 torr	
	@Temperature 30.0 °C	@Temperature 86.0 °F	
	0.0410 bar	30.8 torr	
	@Temperature 35.0 °C	@Temperature 95.0 °F	
	0.0530 bar	39.8 torr	
	@Temperature 40.0 °C	@Temperature 104 °F	
	0.0830 bar	62.3 torr	
	@Temperature 50.0 °C	@Temperature 122 °F	
	0.128 bar	96.0 torr	
	@Temperature 60.0 °C	@Temperature 140 °F	
	0.190 bar	143 torr	
	@Temperature 70.0 °C	@Temperature 158 °F	
	0.275 bar	206 torr	
	@Temperature 80.0 °C	@Temperature 176 °F	
	0.389 bar	292 torr	

Physical Properties	Metric	English	Comments
	@Temperature 90.0 Â°C	@Temperature 194 Â°F	
	0.540 bar	405 torr	
	@Temperature 100 Â°C	@Temperature 212 Â°F	
	0.733 bar	550 torr	
	@Temperature 110 Â°C	@Temperature 230 Â°F	
	0.979 bar	734 torr	
	@Temperature 120 Â°C	@Temperature 248 Â°F	

Thermal Properties	Metric	English	Comments
Specific Heat Capacity	0.840 J/g-Â°C	0.201 BTU/lb-Â°F	
	@Temperature 0.000 Â°C	@Temperature 32.0 Â°F	
	0.850 J/g-Â°C	0.203 BTU/lb-Â°F	
	@Temperature 20.0 Â°C	@Temperature 68.0 Â°F	
	0.870 J/g-Â°C	0.208 BTU/lb-Â°F	
	@Temperature 40.0 Â°C	@Temperature 104 Â°F	
	0.880 J/g-Â°C	0.210 BTU/lb-Â°F	
	@Temperature 60.0 Â°C	@Temperature 140 Â°F	
	0.900 J/g-Â°C	0.215 BTU/lb-Â°F	
	@Temperature 80.0 Â°C	@Temperature 176 Â°F	
	0.910 J/g-Â°C	0.217 BTU/lb-Â°F	
	@Temperature 100 Â°C	@Temperature 212 Â°F	
	0.930 J/g-Â°C	0.222 BTU/lb-Â°F	
	@Temperature 120 Â°C	@Temperature 248 Â°F	
Distillation Temperature	110.6 - 121.6 Â°C	231.1 - 250.9 Â°F	

Descriptive Properties	Value	Comments
Appearance	Clear without suspended matter	ASMT D3741/B
Color	<10	APHA
Composition	<1 mg/kg	Chlorides (Cl)

Descriptive Properties	Value	Comments
	<10 mg/kg	Non volatile Residue
	<15 mg/kg	Organically combined Oxygen and Nitrogen
	<25 mg/kg	Moisture (H2O), Karl Fischer, ASTM E1064
Purity	>999.5 g/kg	without stabilizers

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