



FIBRANT

EcoLactam[®] AP Quality liquid



Formula	C ₆ H ₁₁ NO (ε-Caprolactam) Molecular weight: 113.16 CAS No.: 105-60-2		
Introduction	<p>EcoLactam[®] is a monomer used in the manufacturing of Polyamide-6. EcoLactam[®] has an extremely low carbon footprint. More information can be obtained through your account manager or at www.fibrant52.com</p> <p>EcoLactam[®] typical use cases:</p> <ul style="list-style-type: none"> • Clothing, ropes, fishing nets; • Packaging films; • Engineering Plastics: Plates, rods, molded parts <p>Besides the above, Polyamide 6 is used in many other application fields.</p>		
Appearance	Colorless liquid at temperatures above the melting point.		
Storage	Store in isolated, moisture-tight tanks in a cool, dry area. Store molten material at 80-90°C under a dry nitrogen blanket containing less than 5 ppm oxygen to prevent formation of volatile bases. Caprolactam must be kept away from flammables, oxidizing agents, strong acids and bases and protected from moisture and sunlight.		
Transport	Road tank truck		
	Rail tank cars		
	Tank containers		
Safety & Application Info	Always refer to the Material Safety Data Sheet (MSDS) for detailed information on safety, handling and disposal.		
Physical properties	Density	at 80°C	1013.5 kg/m ³
		at 100°C	998.3 kg/m ³
	Viscosity	at 80°C	8.52 mPa.s (cP)
		at 100°C	4.87 mPa.s (cP)
	Solidification/Melting Point	69°C	



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	Boiling point at 1013 mbar	270 °C	
	Vapor pressure at 70 °C	±0.5 mbar	
	Flash point (closed cup)	139 °C	
	Auto-ignition temperature	395 °C	
Specification	Parameter	Value	Analysis Method
	Water	max 0.009 % m/m	Intertek 1797. Karl-Fischer titration based on ISO 760
	Volatile bases	max 0.50 mmol/kg	Intertek 686. Distillation method based on ISO 8661
	Absorbance at 290 nm	max 0.050	Intertek 621. Spectrophotometric method based on ISO 7059
	Permanganate Absorption Number (PAN)	max 4.0	Intertek 1892. Spectrophotometric method based on ISO 8660
	Color	max 5 APHA	Intertek 1373. Spectrophotometric based on ISO 8112
	Alkalinity	max 0.050 mmol/kg	Intertek 1890. Potentiometric titration
	Acidity	max 0.050 mmol/kg	Intertek 1890. Potentiometric titration
	Ash ¹	max 10 mg/kg	Intertek 1971. Gravimetric method
	Insolubles in water ¹	max 5 mg/kg	Intertek 1972. Gravimetric method
	Iron ¹	max 0.5 mg/kg	Intertek 1397. Spectrophotometric method
¹ Skip lot testing			
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