

DESCRIPTION

Caprolactam from AdvanSix is used in a variety of applications worldwide. As one of the largest and most experienced suppliers of merchant-grade caprolactam, AdvanSix offers industry-leading quality, consistency and reliability of supply.

PERFORMANCE OVERVIEW

TYPICAL PROPERTIES	SPECIFICATIONS
CAS Number	105-60-2
Chemical Formula	$\text{CH}_2-(\text{CH}_2)_4-(\text{CO})-\text{NH}$
Other/Generic Names	Hexahydro-2H-azepin-2-one; 2-oxohexamethylenimine
Appearance	Solid: white flakes; Molten: colorless liquid.
Physical State	Solid at ambient temperature
Molecular Weight	113.16
Odor	Mildly disagreeable
Specific Gravity	1.02 @ 77°C (170.6°F); (H ₂ O = 1.0)
Water Solubility (miscibility), Weight % (Wt. %)	~525g /100g H ₂ O @ 25°C (77°F)
Boiling Point	270°C (518°F)
Melting Point	69°C (156°F)
Vapor Pressure	<0.001 mmHg @ 20°C (68°F)
Vapor Density	3.91 (Air = 1.0)
Evaporation Rate	<1 (compared to butyl acetate)
% Volatiles	100
Flash Point	142°C (288°F), Open cup
Storage	Store in moisture-tight containers in a cool, dry area. Store molten material at 70-80°C (158-176°F) under nitrogen cushion containing less than 5 ppm oxygen.

PRODUCT SPECIFICATIONS

TYPICAL PROPERTIES	SPECIFICATIONS	TEST METHOD
Water, Wt. %	0.10 max.	QALAC-0005
Free Alkalinity, meg/kg	0.05 max.	QALAC-0006
Free Acidity, meg/kg	0.05 max.	QALAC-0006
Color, APHA, 50% solution at 390 nm	5 max.	QALAC-0001
Permanganate Index (ISO)	5 max.	QALAC-0002
Permanganate Number, seconds	20,000 min.	QALAC-0009
Volatile Base (as ammonia), ppm	10 max.	QALAC-0012
Volatile Base (as ammonia), meg/kg	0.59	QALAC-0012
Ash, ppm	10 max.	QALAC-0007
Iron (as Fe), ppm	0.5 max.	QALAC-0011
Transmittance @ 290 nm, %	90 min.	QALAC-0033

CONTACT ADVANSIX

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NOTE

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