



# CAPROLACTAM

CAS No.: 105-60-2

ES No.: 203-313-2

## CHARACTERISTICS

$\epsilon$ -caprolactam (HEXAHYDRO-2H-AZEPIN-2-ONE; 2-OXOHEXAMETHYL-ENEIMIN), or caprolactam, is supplied as a flake or fused product. Flake caprolactam is a white hygroscopic substance, freely soluble in water and most organic solvents. Fused caprolactam is a clear, viscous hygroscopic liquid.

Flake caprolactam is stored in original packaging on palettes in rooms with a maximum relative humidity of 65% (If this condition is not met, caprolactam gets moist.) a maximum temperature of 30°C, and protection from direct sunlight. If storage conditions are observed the **warranty period is 3 months from shipment from Caprolactam shop warehouse.**

Caprolactam is classified as an acute toxic substance of category 4 when inhaled and ingested. It has harmful effects of category 2 to eyes and skin and of category 3 to the respiratory system. During work and handling of caprolactam it is necessary to observe occupational safety and health protection regulations given in Chapter VI hereunder and in a respective safety data sheet.

## TECHNICAL REQUIREMENTS

Quality mark	Unit	Guaranteed value	Testing according to
Solidification point, min.	°C	69.0	SOP-Z-114
Volatile alkalis, max.	mekv/kg	0.4	SOP-Z-114
Permanganate number (3% aquatic solution)*, min.	s	12000	SOP-Z-113
Permanganate index (3% aquatic solution)*, max.	-	4.4	SOP-Z-114
Color in Hazen units (50% aquatic solution), max.	HJ (APHA)	5	SOP-Z-113
Ash, max.	mg/kg	7	SOP-Z-114
Iron, max.	mg/kg	0.5	SOP-Z-114
Substances insoluble in water, max.	mg/kg	5	SOP-Z-114
Alkalinity, max.	mekv/kg	0.1	SOP-Z-113
Acidity, max.	mekv/kg	0.05	SOP-Z-113
Water, max.	%	0.1	SOP-Z-113
Absorbance (50% aquatic solution, $\lambda=290$ , 10mm cuvette), max.	-	0.05	SOP-Z-113

\* As per the customer's requirement the manufacturer states and verifies, in its quality certificate, one of the quality marks shown above.

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