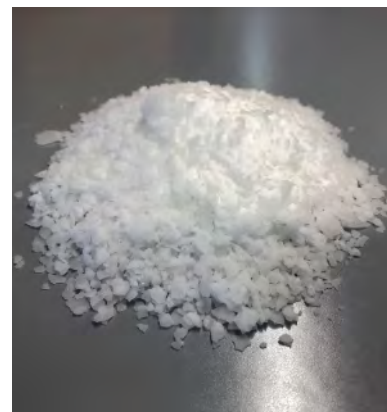
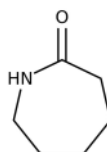
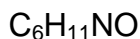


Caprolactam

Empirical / Structural Formula



Applications

Caprolactam is used for the production of fibers and filaments made of Polyamide 6. Examples for end products of Polyamide 6 are: clothing, carpets, ropes, fishing nets, molded plastic parts and packaging films. Engineering plastics (plates, pipes, rotational molded parts) are another important market for Caprolactam. It is also used in numerous special applications.

Characteristics

Crystallization point	≥ 69 °C	
Moisture content	≤ 0.04% (m/m)	
	≤ 0.01% (m/m)	use in anionic polymerization
Volatile bases	≤ 0.5 meq/kg	
Permanganate number	≥ 10,000 s	(3% solution)
Color of a 50% (by wt) aqueous solution	≤ 5 APHA	(ISO 8112)
Content of free bases	≤ 0.1 meq/kg	
Content of free acids	≤ 0.05 meq/kg	
Absorbance at 290 nm	≤ 0.05	(ISO 7059)

Other Data*

Content of Cyclohexanone oxime	≤ 5 mg/kg
Iron content	≤ 0.5 mg/kg
Ash content	≤ 5 mg/kg

*These values provide general information and are not part of the product specification

Storage

Liquid product

Ensure adequate ventilation or aspiration when handling or transferring the product. Store in well isolated tanks or containers under nitrogen blanket. Keep away from acids, bases and oxidizing agents. Pure, liquid Caprolactam can be kept for several weeks without suffering any loss of quality, provided it is stored under the proper conditions.

Solid product

Dust may explode and therefore must be removed by effective ventilation. Store in a cool, dry place and protected from moisture. Keep away from oxidizing agents. Bags should be kept closed during storage. Caprolactam will keep its original quality for months, provide it has been stored as specified.

Bag

Bag Weight	25 kg
Pallet Weight	1,250 kg
Pallet Dimensions	1,400 x 1,130 x 1,380 mm

Bag

Bag Weight	25 kg
Pallet Weight	1,000 kg
Pallet Dimensions	1,400 x 1,130 x 1,130 mm

Bulk

Tank container

Tank truck

Other packaging forms and further information available on enquiry.



Contact

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Disclaimer

This information and our technical advice - whether verbal, in writing or by way of trials - are given in good faith but without warranty, and this also applies where proprietary rights of third parties are involved. Our advice does not release you from the obligation to verify the information currently provided - especially that contained in our safety data and technical information sheets - and to test our products as to their suitability for the intended processes and uses. The application, use and processing of our products and the products manufactured by you on the basis of our technical advice are beyond our control and, therefore, entirely your own responsibility. Our products are sold in accordance with the current version of our General Conditions of Sale and Delivery.

Values

Unless specified to the contrary, the values given have been established on standardised test. The figures should be regarded as guide values only and not as binding minimum values.

