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Caprolactam tablets

Product description

Caprolactam is a monomer used for the production of polyamides.

Specification

	Test method	Unit	Value
Water content	ISO 760	% m/m	max. 0.10
Content of volatile bases	ISO 8661	meq/kg	max. 0.4
Content of free bases	acidimetric titration	meq/kg	max. 0.05
Content of free acids	acidimetric titration	meq/kg	max. 0.05
Color number of aqueous solution	ISO 8112	50 % m/m	max. 3
Permanganate index (Permanganate absorption number)	ISO 8660		max. 4
Absorbance at 290 nm	ISO 7059		max. 0.05
Iron content	AES	mg/kg	max. 0.5
Ash content	gravimetric	mg/kg	max. 4
Water insoluble material	gravimetric	mg/kg	max. 4

General properties

	Test method	Unit	Typical value
Density at 80 °C		kg/l	1.014
Bulk density		kg/m^3	500 - 550
Boiling point at 1.013 mbar		°C	270.8
Flash point	DIN 51758	°C	152
Melting/solidification point		°C	69.2
Solubility in water at 25 °C		kg/l	5.25
Heat of polymerization		kJ/kg	140
Heat of fusion		kJ/kg	142.6
Heat of combustion		kJ/kg	31,900

Supply form and storage	Caprolactam tablets are available in Polyethylene bag on pallets with shrink-wrapped cover for shipment by truck, rail or container. Caprolactam tablets should not be exposed to moisture or direct sunlight. The storage temperature may not exceed 45 °C. It is advisable to process the tablets within six months. Bags should only be moved on their pallets using forklifts. A safety data sheet contains appropriate recommendations for their disposal.
Disclaimer	The aforementioned data shall constitute the agreed contractual quality of the product at the time of passing of risk. The data are controlled at regular intervals as part of our quality assurance program. Neither these data nor the properties of product specimens shall imply any legally binding guarantee of certain properties or of fitness for a specific purpose. No liability of ours can be derived therefrom. This document has been generated by electronic data processing and is valid without a signature. June 2014

Further information

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