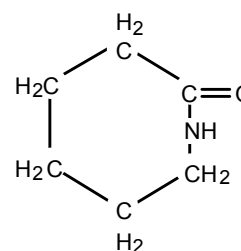


DSM Fibre Intermediates

Product Data Sheet

Caprolactam A.P.Quality (flakes)



Formula	C ₆ H ₁₁ NO Molecular weight : 113.16																								
Introduction	A(nionic) P(polymerisation), grade Caprolactam is especially manufactured for use in anionic polymerisation to Nylon 6.																								
Appearance	White, hygroscopic crystalline substance with a faint characteristic odour. Readily soluble in water.																								
Physical properties	<table><tr><td>density:</td><td></td><td></td></tr><tr><td>Solid (bulk density)</td><td></td><td>600-700 kg/m³</td></tr><tr><td>Liquid</td><td>at 80° C</td><td>1013.5 kg/m³</td></tr><tr><td></td><td>at 100° C</td><td>998.3 kg/m³</td></tr><tr><td>Viscosity</td><td>at 80° C</td><td>8.52 mPa.s (cP)</td></tr><tr><td></td><td>at 100° C</td><td>4.87 mPa.s (cP)</td></tr><tr><td>Melting point dry basis</td><td></td><td>69.0°C</td></tr><tr><td>Boiling point at 1013 mbar</td><td></td><td>270°C</td></tr></table>	density:			Solid (bulk density)		600-700 kg/m ³	Liquid	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)	Melting point dry basis		69.0°C	Boiling point at 1013 mbar		270°C
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Applications	Products manufactured range from various stock shapes (bars, plates etc.) centrifugal casted pipes and cylinders, rotational-moulded containers (i.e. hollow products) and various casted industrial parts.																								
Packing	Innerbag: polyethylene Outerbag: polyethylene, aluminium, polyethylene laminate with labyrinth valves in each corner, shrink wrapped palletized. Net weights of bags 25 kg.																								
Safety precautions	The use of protective gloves, goggles and clothing is recommended in order to avoid direct contact with the skin (splashing!) when handling the hot molten product. Good ventilation or dust extraction equipment should be applied wherever vapour, dust or fine particles are present. Caprolactam monomer is easily removed from the skin and eyes by washing with water. Caprolactam is little combustible (flash point: 139°C, closed cup) and the ignition temperature is 375°C. Fires should be extinguished immediately by spraying with water.																								
Sales	DSM Fibre Intermediates B.V. P.O. Box 43 6130 AA Sittard, The Netherlands Telephone: +31.46.4770035 Telefax: +31.46.4770033																								

The information in this leaflet, is to the best of our knowledge, true and accurate. Any recommendation or suggestions are made without warranty of guarantee since the conditions of use are beyond our control. We further point out that patents may exist for certain applications.

DFI 7/98