

Technical Data Sheet

N,N-Dimethyldecanamide (C10 Amide)

Chemical Synonym

N,N-Dimethylcapramide; N,N-Dimethylcaprylamide; N,N-Dimethyldecan-1-amide; C10 Amide

Product Description

N,N-Dimethyldecanamide is a clear liquid with colorless to brownish color.

The product is insoluble in water.

N,N-Dimethyldecanamide is used as a solvent for various substances (e.g. for active ingredients in agricultural formulations).

Typical Properties

Property	Typical Value, Units
General	
Molecular Formula	C ₁₂ H ₂₅ NO
Molecular Weight	199.33 g/mol
Autoignition Temperature	330 °C
Boiling Point	291 °C
Density	
@ 20°C	0.88 g/cm ³
Dissociation constant, pKa	0
Flash Point	
Closed Cup	147 °C
Freezing Point	-7 °C
Octanol-water partition coefficient, log Pow	3.44
Refractive Index	
@ 25°C	1.4520
Solubility in Water	
@ 20°C	0.34 g/L
Surface Tension	
@ 20°C	53 mN/m
Vapor Pressure	
@ 25°C	0.0011 hPa
Viscosity	
@ 20°C	5.7 mm ² /s

Packaging

Bulk

Storage

Stainless steel and an inert nitrogen atmosphere are recommended for prolonged storage of the bulk material.

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