

DIMETHYLFORMAMIDE (DMF)

(CH₃)₂NCOH

Specifications	Value	Test Method
Purity (DMF)	Min. 99,9%	Gas Chromatographic
Water	Max. 150 ppm	Coulometer
Basicity (as dimethylamine)	Max. 10 ppm	Titrimetric
Acidity (as formic acid)	Max. 10 ppm	Titrimetric
Color (APHA)	Max. 5	Spectrophotometric
Conductivity (20% solution,20°C)	Max. 2 µs/cm	Conductometric
pH (20% solution,25°C)	6.5 - 8.0	pH meter
Methanol	Max. 50 ppm	Gas Chromatographic
Refractive Index (25°C)	1.4260 - 1.4300 nD	Refractometric
Density (25°C)	0.948 - 0.952 g/cm ³	Dansimetric

PRODUCT DESCRIPTION

Solvent for polymers and resins, catalyst in chemical reactions, gas absorption, solvent for electrolytes, solvent in extractions, solvent in crystallization.

*Physical and Chemical Properties:

Molecular Weight	73.09 g/mole
Boiling Point (@101,325 kPa)	153°C
Melting / Freezing Point (@101,325 kPa)	-61°C
Flash Point (@101,325 kPa)	58°C
Auto Ignition Temperature (@101,325 kPa)	445°C
Lower Explosion Limit (V)	2.2%
Upper Explosion Limit (V)	15.2%
Vapour Pressure (25°C)	37.7 kPa

APPLICATION

- The strong solvent characteristic of DMF is mostly benefited in film and fiber production and also in adhesive and coating formulations.

- Use of DMF as a solvent is more economical than cheap solvents, due to its solving more solid substances in practical operating viscosities.

- DMF is an effective solvent for vinyl polymers, urethanes, epoxy resins, polyacrylonitril and polyamides.

PACKAGING, STORAGE & SHELF LIFE

Bulk delivery in stainless tanks, available in 900 kg antistatic IBC tanks and 200 kg polyethylene drums.

Keep product in a closed and isolated system. Minimize inhalation exposure time and provide appropriate ventilation conditions.

Wear rubber and PVC gloves and footwear during usage.

In case of leakage, use self-contained breathing apparatus in order to avoid exposure to high vapor concentration.

DMF has to be stored bulk in stainless tanks, polyethylene drums and IBC tanks, use of copper and copper compounds has to be avoided. If above conditions are provided, DMF can be stored for 1 year without losing its properties.



SAFETY & PRECAUTIONS

Please refer to SDS before handling for safe use and regulatory information. You can contact your sales representatives to obtain SDS.

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