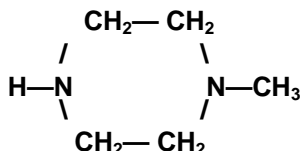




N-Methylpiperazine - NMP



Molecular Weight	100.19
CAS Reg. No.	109-01-3
EINECS No.	203-639-5

Synonym

1-Methyl piperazine

Specification

Appearance	colorless, hygroscopic liquid
Assay	min. 99.0% (GLC)
Water	max. 0.2% (KF titr.)
Organic Impurities	max. 0.5% (GLC)
Color	max. 20 Hazen (Comparator)

Test methods are available upon request.

Typical Properties

Melting Point	-6°C
Boiling Point	138°C
Density	903 kg/m ³ at 20°C
Refract. Index, n_D^{20}	1.465
Flash Point	42°C (Closed Cup)
Vapor Pressure	approx. 1 kPa at 20°C
pH	11-12 (5% solution)
Odor	mildly ammoniacal

Solubility

water	miscible, hygroscopic
ethanol	miscible
acetone	miscible
ether	immiscible
benzene	immiscible
hexane	immiscible

Reacts violently with acids and chlorinated hydrocarbons. Absorbs carbon dioxide from air. May discolor in contact with air.

Applications

Curing agent for polyurethane foams and epoxy resins. Intermediate for tranquillizers, anti-histamines, antibiotics, quinolones, surfactants, synthetic fibers, dyestuffs, and corrosion inhibitors.

Packaging

Delivered in polyethylene lined drums containing 180 kg net.

Storage

Store the product in tightly closed containers. Aluminum, copper, nickel, zinc and their alloys are corroded.

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