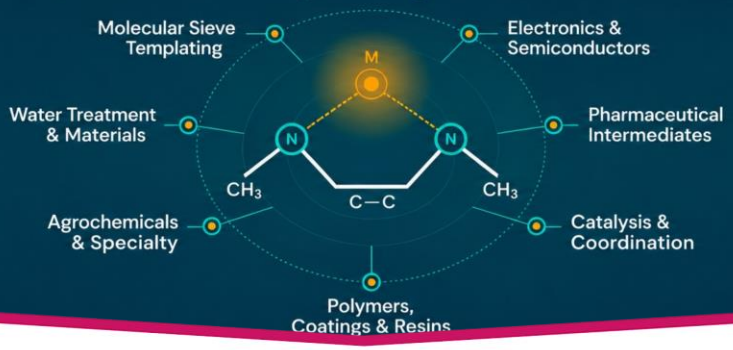
DMEDA

N,N'-Dimethylethylenediamine



PRODUCT IN FOCUS

EXSYN® ESSENTIAL CHEMISTRY

N,N′-Dimethylethylenediamine

INTRODUCTION

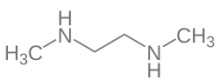
N,N′-Dimethylethylenediamine (DMEDA) is an organic chemical compound belonging to the diamine family. It contains two nitrogen atoms, each bearing a methyl group, connected by a two-carbon chain.

It is a is a versatile aliphatic diamine widely utilized across industrial synthesis, catalysis, and manufacturing. Its dual amine structure and chelating properties make it valuable in several key applications

Manufacture

DMEDA is industrially manufactured through controlled chemical synthesis. Most common manufacturing processes:

- Controlled nucleophilic substitution of 1,2-dichloroethane or 1,2-dibromoethane with methylamine.
- Reductive amination of formaldehyde using ethylenediamine

Synonyms	Dimethyl-1,2-ethanediamine; DMEDA; 1,2-Bis(methylamino) ethane
CAS no.	110-70-3
EINECS no.	220-250-6
Molecular Formula	$C_4H_{12}N_2$
Molecular Weight	88.15
Structure	

Applications

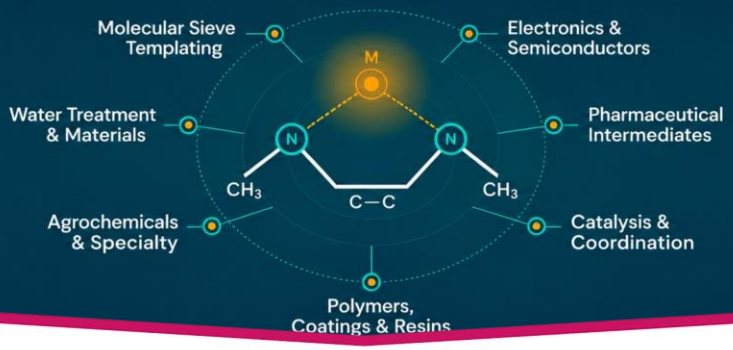
Its major applications include:

- **Electronics & Semiconductors**
  In photoresist stripping, wafer & component cleaning.
- **Pharmaceuticals & Medicinal Chemistry**
  Used as a building block or intermediate in pharmaceutical synthesis of analgesics, antihistamines, cardiovascular drugs, anti-inflammatory agents, local anesthetics, and CNS-targeting therapeutics, including compounds related to Lumateperone Tosylate.
- **Catalysis & Coordination Chemistry**
  Acts as a ligand in metal - catalysed reactions, including palladium - catalysed cross-coupling.
- **Polymers, Coatings & Resins**
  Used in selected resin formulations and specialty polymer synthesis.
- **Agrochemicals & Specialty Chemicals**
  Serves as an intermediate in chemical synthesis of agricultural chemicals, including herbicides, fungicides, and insecticides.
- **Water Treatment & Materials Science**
  Investigated for metal coordination and specialized materials synthesis.
- **Molecular Sieve Templating**
  Acts as a structure-directing agent (template) in the hydrothermal synthesis of specialized molecular sieves like DNL-6

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DMEDA
N,N'-Dimethylethylenediamine



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SPECIFICATIONS

Test	Unit	Specification
Appearance	-	Colourless to pale yellow liquid
Identification (By GC)	% Wt	The retention time of the main peak of the test solution was consistent with that of the reference solution(±0.5min)
Water Content	%	Max 2.0
Purity (By GC)	%	Min 98.0

PACKING
200 Kg HDPE drum

STORAGE
Store in a cool, well-ventilated place, out of direct sunlight

REACH status
Not Registered

ExSyn offers N,N′-Dimethylethylenediamine on commercial scales and welcomes enquiries. No matter the quantity you need, our exceptional quality and service will make ExSyn your supplier of choice! If you need any additional information or SDS, please contact us.

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