

Diethylenetriamine (DETA)

Technical DataSheet | Supplied by Huntsman

Diethylenetriamine (DETA) by Huntsman is a curing agent for epoxy resins. It also functions as a corrosion inhibitor, surfactant, mineral processing aid and chelating agent. It is a clear, colorless, single-component grade with ammonia-like odor. It is suitable for polyamide resins and wet strength resins. It is used as a polymer and resin modifier. Diethylenetriamine (DETA) can be used in composites. It is listed with DSL (Canada) & TSCA (United States).

Product Type	Crosslinkers / Curing Agents / Hardeners > Amines / Amides
Chemical Composition	Diethylenetriamine
CAS Number	111-40-0
Appearance	Clear, Colorless
Product Status	COMMERCIAL
Applications/ Recommended for	PA, Nylon Epoxy, Epoxide Resin Curing & polymerisation control
Labels/Agency Rating	DSL (Canada), TSCA (United States)

Diethylenetriamine (DETA) Properties

Property	Value & Unit	Test Condition	Test Method
Amine Content	< 0.50 %	Molecular Weight <DETA	ST-35.218
Amine Content	< 1.00 %	Molecular Weight >DETA	ST-35.218
Assay	> 98.5 %	DETA	ST-35.218
Color, APHA	< 30		ST-30.12
Water Content	< 0.50 %		ST-31.53. 6

Amine Value 1626 mg KOH/g

Boiling Point 207 °C At 760 mm Hg

Coefficient of Expansion 0.00106 1/°C At 20°C

Density 0.952 g/ml At 20°C

Flash Point 102 °C Pensky-Martens Closed-Cup

Freezing Point -39 °C

Viscosity, Kinematic 5.8 cSt At 25°C

Molecular Weight 103.1

Nitrogen Content 40.6 %

pH 12 - 13

Refractive Index 1.481 At 25°C

Vapor Pressure 0.37 mm Hg At 20°C

Viscosity 4 cSt At 25°C

Amine Hydrogen Equivalent Weight (AHEW) 21 g/eq

Solubility	Element	Test Condition	Test Method
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Soluble in	Water (>10)		
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Compatibility with other products

Find products that are predicted to be compatible with Diethylenetriamine (DETA).

This list of compatible products is generated out of estimated HSP values. A practical determination of these HSP values would provide higher certainty.

[Learn more about Hansen Solubility Parameters \(HSP\) and their use in predictive formulation](#)



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