

DIETHYLENE TRIAMINE (DETA)



Cas Number: 1 05-53-3

Other Names: Bis(2-aminoethyl)amine, 2,2'-Diaminodiethylamine,
Diethylene triamine, Barsamide 115, Epicure T, Ancamine DETA

Formula: $C_4H_{13}N_3$

PRODUCT INTRODUCTION

Diethylene Triamine (DETA) is a linear ethyleneamine containing two primary and one secondary nitrogen. DETA is clear and colorless, with an ammonia-like odor. It is readily soluble in both water and organic solvents. It is a weak base and its aqueous solution is alkaline. Corrosive to metals and tissue. Toxic oxides of nitrogen produced during combustion.

PHYSICAL AND CHEMICAL PROPERTIES

Appearance	Clear
Color (APHA)	10 max.
Specific Gravity (20/20°C)	0.951
Purity	99.79 %
Initial Boiling Point	206 °C
Drying Point	209 °C
Water Content	0.02 %

APPLICATIONS

- Chelating agents – to form complexes with certain metal ions to prevent the ions from interfering with processing or to promote buffering, concentration, separation, or transport
- Corrosion inhibitors – to slow corrosion in petroleum production operations

- Epoxy curing agents – to enhance the performance and application of epoxy coatings, adhesives, laminates, castings, and grouts
 - Fabric softeners – for industrial operations to make textiles softer, fluffier, and more resistant to soil and static build-up
 - Footwear
 - Paper wet-strength resins – to promote wet-strength properties in towels and tissues
 - Petroleum production chemicals – for corrosion inhibitors, demulsifiers, and neutralizers used in the oil field, as well as additives that enhance certain separation techniques
 - Polyamide resins – for use in varnishes, adhesives, and binders for printing inks
 - Spandex – for use in clothing
 - Surfactants – for mild soaps and detergents with good foaming characteristic
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PACKAGING OPTIONS

Drums

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