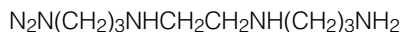


January 1997

# N<sub>4</sub> Amine

## N,N'-bis-(3-aminopropyl)-ethylenediamine

Formula:..... C<sub>8</sub>H<sub>22</sub>N<sub>4</sub>  
 Molecular Weight:..... 174.3  
 Product Number: ..... 957721  
 CAS Registry Number:.. 10563-26-5



Product Specifications	Value	Test Method
Assay, % minimum	96.5	G.C.
Impurities, % maximum	0.5	G.C.
polyamines		G.C.
water		DIN 51 777
Color, maximum	1	DIN 53 403

Physical Properties	
Boiling point, °C	170
Density @ 20°C, g/cm <sup>3</sup>	0.95 – 0.96
Flash point, °C	142
Weight/gallon, lbs.	8.0

### Description

N<sub>4</sub> Amine is a colorless to pale yellow liquid, free of suspended matter. It is miscible with water and almost all common organic solvents.

### Safety

N<sub>4</sub> Amine is corrosive to the skin and eyes. Contact may result in burns, pain, swelling and corneal clouding. Permanent eye damage may result. Overexposure by ingestion or skin absorption may result in loss of appetite, difficult breathing, loss of balance, etc.

Always refer to the Material Safety Data Sheet (MSDS) for detailed information on safety.

### Applications

Intermediate used in the production of:

- agricultural chemicals
- paper and textile auxiliaries
- emulsifiers
- flotation agents
- fuel and lubricant additives
- detergents

It is also used as:

- a hardener
- a crosslinking agent for epoxy resins

### Packaging

Available in bulk containers and 407 lb (net weight) non-returnable steel drums.

### Storage & Handling

N<sub>4</sub> Amine has a shelf life of at least two years in unopened, original containers. It must be protected from moisture and air. It is neither explosive nor spontaneously flammable in air. However, it is combustible, malodorous and corrosive.

Always refer to the Material Safety Data Sheet (MSDS) for detailed information on handling and disposal.

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