



Asia Petrochemicals LLC

## Diethanolamine (DEA)

### PRODUCT DESCRIPTION

Diethanolamine is produced by reacting ethylene oxide with ammonia. In most production facilities, ethylene oxide and ammonia are reacted in a batch process that yields a crude mixture of ethanolamine, diethanolamine and triethanolamine. The mixture is then distilled to separate and purify the individual compounds.

### Applications

Diethanolamine is widely used in the preparation of diethanolamides and diethanolamine salts of long-chain fatty acids that are formulated into soaps and surfactants used in liquid laundry and dishwashing detergents, cosmetics, shampoos and hair conditioners. Diethanolamine is also used in the production of lubricants in the textile industry, in industrial gas purification to remove acid gases and as an emulsifier and dispersing agent in preparations of agricultural chemicals. Diethanolamine is used in metalworking fluids for cutting, stamping and die-casting operations as a corrosion inhibitor. In the production of detergents, cleaners, fabric solvents and metalworking fluids, diethanolamine is used for acid neutralization and soil deposition.

**Packing:** Drums, Flexi & Bulk

PARAMETER	VALUE
Molecular Formula	C <sub>4</sub> H <sub>11</sub> NO <sub>2</sub>
Mol Wt	105.13
CAS #	[111-42-2]
Description	Clear colourless liquid
Assay (%)	99% Min
Distillation range in °C	265-270
Acidity as acetic acid (%)	0.01 Max
KF Water (%)	0.01 Max
Density at 27/27°C	0.872-0.875
ROE (%)	0.01 Max

For further information please visit <http://www.asia-petrochem.com> or send an enquiry to [info@asia-petrochem.com](mailto:info@asia-petrochem.com)

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