

## **IS 7911: 2000 - Diethanolamine Specification**

This standard defines the specifications for diethanolamine, a clear liquid with a mild odour, mainly used in gas scrubbing to remove CO<sub>2</sub> and H<sub>2</sub>S from Natural Gas. The final product should primarily contain diethanolamine, with minor amounts of monoethanolamine and triethanolamine, and be fully miscible with water and 96% ethanol, though only slightly soluble in ether. Key requirements/ quality parameters outlined in IS include a minimum assay of 98%, specific moisture content, relative density limits, and a crystallizing point of at least 25°C.

Diethanolamine is extensively used in manufacturing morpholine, surfactants, textile agents, and petrochemical demulsifiers. It also functions as an emulsifier and dispersant in agricultural chemicals, cosmetics, pharmaceuticals, and as a lubricant and softening agent in textiles.