



ZÜMRÜT INTERNATIONAL KİMYA SAN. VE TİC.LTD

Technical Data Sheet of TRIETHANOLAMINE (TEA) 85%

Property	Specifications	Test Method
Appearance	Clear and substantially free matter	ST-30.1 of suspended
Equivalent weight	161 – 173.5	ST-5.5
Triethanolamine	wt% Measure	70 min
Water, wt%	13 – 17	Loading Measure

Applications of TRIETHANOLAMINE (TEA)

Surfactants and Detergents :

- *Foaming Agents* : TRIETHANOLAMINE (TEA) is used to produce anionic and non-ionic surfactants, which are key ingredients in shampoos, liquid soaps, and household cleaners. These surfactants enhance foaming and cleaning properties.
- *Emulsifiers* : TRIETHANOLAMINE (TEA) helps to stabilize emulsions, ensuring consistent texture and performance in various cleaning products.

Personal Care Products

- *Cosmetics* : TEA is used in lotions, creams, and other cosmetics as a pH adjuster, emulsifier, and stabilizer. It helps to maintain the stability and consistency of these products.
- *Shaving Creams* : Used to improve the texture and foaming properties of shaving creams and gels.
- *Hair Care* : Found in shampoos and conditioners to enhance cleaning and conditioning properties.

Textile Processing

- *Lubricants and Anti-static Agents* : TEA is used in textile processing to produce lubricants and anti-static agents, improving the handling and quality of textiles.

Gas Treatment

- *Acid Gas Removal* : TRIETHANOLAMINE (TEA) can be used to remove acidic gases like carbon dioxide (CO₂) and hydrogen sulfide (H₂S) from natural gas and refinery gas streams, similar to MEA and DEA.

Pharmaceuticals

- *Formulations* : TEA acts as an emulsifier and solubilizer in pharmaceutical formulations, helping to enhance the stability and effectiveness of medicinal products.

Metalworking Fluids

- *Corrosion Inhibition* : TEA is used in metalworking fluids as a corrosion inhibitor and pH buffer, protecting metal surfaces from rust and corrosion.

Cement and Concrete

- *Grinding Aids* : TEA is used as a grinding aid in the production of cement, improving the efficiency of the grinding process and the quality of the final product.

Coatings and Adhesives

- *Neutralizing Agent* : TRIETHANOLAMINE (TEA) is used as a neutralizing agent and dispersant in coatings, adhesives, and sealants, ensuring uniform consistency and stability.



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