

Triethanolamine 85%

Commercial alkanolamine grade for neutralization, pH adjustment and industrial formulation.

CAS No. 102-71-6	EC / List No. 203-049-8	Transport Non-dangerous goods
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Product Information

Triethanolamine is an alkanolamine with tertiary-amine and alcohol functionality. The TEA component formula is C₆H₁₅NO₃ and molecular weight 149.19 g/mol. The commercial 85% grade is a mixture; component molecular weight must not be confused with the mean molecular weight of the supplied grade.

Specifications

Parameter	Specification
Triethanolamine	≥85 % wt
Moisture, source control value	0.5 %
Mean molecular weight, source grade	140–146.9
Relative density at 20/20°C	1.120–1.130

The moisture entry has no inequality in the source. Mean molecular weight describes the commercial grade; pure TEA component molecular weight is 149.19 g/mol.

Typical Properties

Property	Typical Value
Molecular formula	C ₆ H ₁₅ NO ₃ (TEA component)
Molecular weight	149.19 g/mol (TEA component)

Applications

Surfactant neutralization and cleaners: Alkanolamine component for fatty-acid neutralization and pH adjustment in compatible cleaner and surfactant systems. Evaluate composition, formulation stability and end-use restrictions.

Metalworking and industrial formulations: Component for selected metalworking and corrosion-control formulations. Qualify the complete inhibitor system, materials compatibility and nitrosamine controls.

Construction and specialty chemicals: Alkanolamine for compatible construction and specialty-chemical formulation development. Determine treatment and performance by process trials rather than assuming a universal dosage.

Packaging / Storage

Item	Information
Packing	200 kg drums / 1,000 kg IBC
Storage	Keep tightly closed in a cool, dry, ventilated place, preferably below 40°C. Protect from moisture uptake, excessive heat and direct sunlight. Separate acids, oxidizers and nitrosating agents.
Handling	Use controlled liquid transfer with ventilation where mist can form. Wear suitable chemical-resistant gloves, protective clothing and eye/face protection. Avoid prolonged skin exposure and contamination with nitrosating agents; wash thoroughly after handling.

Company Contact

Supplier	Hainan Zhongxin Chemical Co., Ltd. (ZXCHEM)
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