THEED 60

N,N,N′,N′-Tetrakis(2-hydroxyethyl)ethylenediamine

CAS No.: 140-07-8

Formula: $C_{10}H_{24}N_2O_4$

DESCRIPTION

THEED 60 is a high-purity tertiary amine containing four hydroxyethyl functional groups. It is supplied as a 60 % aqueous solution and provides strong chelating and coordination capability with metal ions. The product is versatile in both aqueous and non-aqueous systems, acting as an effective complexing, dispersing, and curing additive in various chemical formulations.

KEY FEATURES

- Excellent metal-ion complexing ability, especially for zinc and nickel systems.
- Balanced tertiary amine and polyol functionality for broad reactivity.
- Effective accelerator and dispersant in cement and electroplating formulations.
- High chemical stability and low colour (≤ 50 APHA).
- Readily soluble in water and polar solvents.

APPLICATIONS

- Complexing agent in metal plating and surface-treatment baths.
- Basic zinc–nickel alloy complexing additive.
- Cement and concrete curing accelerator.
- Chemical copper-plating additive.
- Component in cleaning and detergent formulations.

TYPICAL SPECIFICATIONS

Parameter	Specification
Appearance (25 °C)	Colourless transparent liquid
pH (1 % aqueous solution)	8.5 – 11.0
Purity	60 – 62 wt %
Colour	≤ 50 APHA
Viscosity (25 °C)	20 – 80 mPa·s

These values are typical and do not constitute specifications.

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This document is subject to revision without notice as new data becomes available.

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USAGE GUIDELINES

- Use directly or dilute with deionised water depending on application.
- Recommended concentration varies by system — typical range 0.1 – 5 % by weight.
- In metal-finishing systems, maintain pH and complexing ratios according to bath design.
- For cement systems, evaluate dosage to achieve the desired set-time and strength profile.

PACKAGING

- 200 kg
- 1000 kg drums.

STORAGE

Store in a cool, dry, and well-ventilated place away from acids and oxidising agents. Keep containers tightly sealed to prevent moisture contamination. Shelf life 12 months under recommended conditions.

SAFETY & HANDLING

Avoid contact with skin and eyes. Use gloves, goggles, and protective clothing. In case of contact, rinse immediately with water. Refer to the Safety Data Sheet (SDS) for detailed information on safe handling and disposal.