

Technical Data Sheet (TDS)

N,N,N',N'-Tetramethylethylenediamine (TMEDA)

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Product Description

N,N,N',N'-Tetramethylethylenediamine (TMEDA) is a colorless to light yellow liquid with a characteristic amine-like odor. It is commonly used as a ligand, catalyst component, and solvent in organic synthesis and polymerization reactions. TMEDA is highly flammable and forms explosive mixtures with air.

Applications

- Catalyst component and ligand in polymerization and organic synthesis.
- Solvent and complexing agent in chemical reactions.
- Used in the production of fine chemicals and pharmaceuticals.

Chemical Information

Chemical Name:	N,N,N',N'-Tetramethylethylenediamine
Chemical Formula:	C ₆ H ₁₆ N ₂
CAS No.:	110-18-9
EINECS/ELINCS No.:	203-744-6
Molecular Weight:	116.21 g/mol

Specifications

Appearance	Colorless to light yellow liquid
Purity	>= 99%
Density at 20°C	0.775 g/cm ³
Boiling Point	121-122°C

Typical Properties

Melting Point	-55°C
Flash Point	14°C (closed cup)
Solubility	Miscible with water and organic solvents
Odor	Amine-like odor

Packaging

Available in drums, IBC tanks, or customized packaging solutions compliant with IMDG regulations.

Storage and Handling

- Store tightly closed in a cool, dry, well-ventilated area.
- Protect from heat, sparks, and open flames.
- Ground and bond containers when transferring material.

Safety and Regulatory Information

- Classified as flammable liquid and eye irritant under GHS.
- Refer to MSDS for detailed safety and handling procedures.
- Compliant with TSCA (US) and EINECS (EU) listings.

Disclaimer

This document is provided for informational purposes only. Tuoda Industry Limited makes no warranties regarding the product's fitness for a specific use. Customers must verify regulatory compliance for their intended applications.