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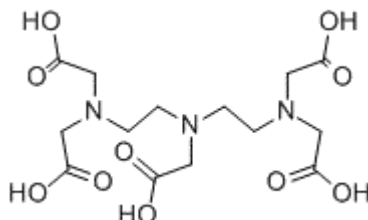
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Technical Data Sheet

Diethylenetriaminepentaacetic acid

Product Information

Chemical Name	Diethylenetriaminepentaacetic acid
CAS #	67-43-6
EINECS	200-652-8
Synonyms	DPTA;(Carboxymethylimino)bis(ethylenenitrilo)tetraacetic acid; Pentetic acid
Molecular Formula	C ₁₄ H ₂₃ N ₃ O ₁₀
Molecular Weight	393.35
Chemical Structure	



Description

White crystal or crystalline powder.

Soluble in hot water and alkali solution, slightly soluble in cold water, not soluble in alcohol ether and other organic solvents.

Physical Properties

Density	1.56g/cm ³
Melting point	219-220°C
Boiling Point	721.1°C at 760 mmHg
Flashing Point	200°C
Water solubility	5 g/L (20°C)

Specification

<u>Items</u>	<u>Specification</u>
Appearance	White crystal powder
Assay	≥99.00%
PH=11 mgcaco3/g	≥252
Heavy Metal (Pb)	≤0.001%
Fe	≤0.001%
Cl	≤0.01%
SO4	≤0.50%
Loss on drying	≤0.20%
PH(1% water solution 25℃)	2.10 ~ 2.50

Safety

Diethylenetriaminepentaacetic acid is a stable material, not dangerous on transportation.
Always refer to the Material Safety Data Sheet (MSDS)

Applications

- 1) DTPA is mainly used for sequestering metal ions that otherwise decompose hydrogen peroxide, which is used to bleach pulp in paper making.
- 2) DTPA is used for the chelating titrant.
- 3) DTPA is used for aldehyde, ketone, chloride of reductant plastic foaming agent, etc.
- 4) DTPA is used as the complexing agent, treatment for radioactive isotopes and heavy metal poisoning.
- 5) DTPA is also used for color processing kit chemicals, acrylonitrile concentrate decoloring agent, etc

Packaging

25kg per kraft paper bag or as per customer's requirements.

Storage & Handling

DTPA should be stored in cool and dry place. Keep container tightly closed.
Please refer to the Materials Safety Data Sheet (MSDS) for the handling methods.

Always refer to the Material Safety Data Sheet (MSDS) for detailed information on handling and disposal.

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