

Certificate of Analysis

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Product Name: EGTA

Catalog No.: 2807

Batch No.: 4

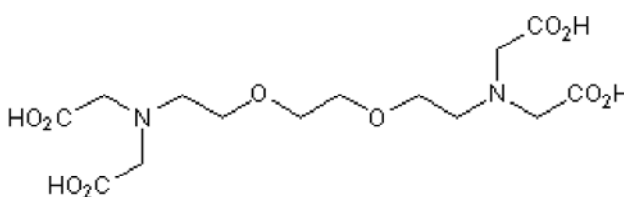
CAS Number: 67-42-5

EC Number: 200-651-2

IUPAC Name: Ethylene glycol-bis(2-aminoethylether)-N,N,N',N'-tetraacetic acid

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: C₁₄H₂₄N₂O₁₀·½H₂O
Batch Molecular Weight: 389.36
Physical Appearance: White solid
Solubility: 1M NaOH to 100 mM
Storage: Store at RT
Batch Molecular Structure:



2. ANALYTICAL DATA

¹H NMR: Consistent with structure

Mass Spectrum: Consistent with structure

Microanalysis:

	Carbon	Hydrogen	Nitrogen
Theoretical	43.19	6.47	7.19
Found	43.1	6.39	7.34

Caution - Not Fully Tested • Research Use Only • Not For Human or Veterinary Use

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CAS Number: 67-42-5

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Description:

Calcium chelator; protects against cell death caused by nitric oxide-induced calcium influx into nerve cells.

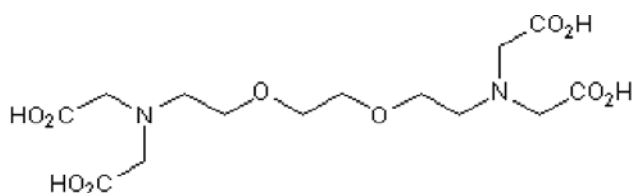
Physical and Chemical Properties:

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Physical Appearance: White solid

Batch Molecular Structure:



Storage: Store at RT

Solubility & Usage Info:

1M NaOH to 100 mM

Note on solubility: this product is insoluble in water at room temperature. However, it becomes much more soluble as the pH increases. This can be achieved by gradual addition of a concentrated solution of aqueous sodium hydroxide. The solubility at pH 9 is >100mM.

Stability and Solubility Advice:

Some solutions can be difficult to obtain and can be encouraged by rapid stirring, sonication or gentle warming (in a 45-60°C water bath).

Information concerning product stability, particularly in solution, has rarely been reported and in most cases we can only offer a general guide. Our standard recommendations are:

SOLIDS: Provided storage is as stated on the product label and the vial is kept tightly sealed, the product can be stored for up to 6 months from date of receipt.

SOLUTIONS: We recommend that stock solutions, once prepared, are stored aliquoted in tightly sealed vials at -20°C or below and used within 1 month. Wherever possible solutions should be made up and used on the same day.

References:

Fisher et al (2004) Catalytic superoxide scavenging by metal complexes of the calcium chelator EGTA and contrast agent EHPG. *Biochem.Biophys.Res.Comms.* **323** 163.

Boullerne et al (2001) Role of calcium in nitric oxide-induced cytotoxicity: EGTA protects mouse oligodendrocytes. *J.Neurosci.Res.* **63** 124. PMID: 11169622.

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