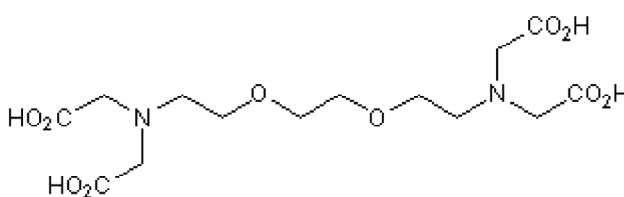


**Product Name:** EGTA  
**CAS Number:** 67-42-5  
**IUPAC Name:** Ethylene glycol-bis(2-aminoethylether)-*N,N,N',N'*-tetraacetic acid

**Catalog No.:** 2807  
**Batch No.:** 5  
**EC Number:** 200-651-2

**1. PHYSICAL AND CHEMICAL PROPERTIES**

**Batch Molecular Formula:** C<sub>14</sub>H<sub>24</sub>N<sub>2</sub>O<sub>10</sub>·¼H<sub>2</sub>O  
**Batch Molecular Weight:** 384.85  
**Physical Appearance:** White solid  
**Solubility:** 1M NaOH to 100 mM  
**Storage:** Store at RT  
**Batch Molecular Structure:**



**2. ANALYTICAL DATA**

**<sup>1</sup>H NMR:** Consistent with structure  
**Mass Spectrum:** Consistent with structure

**Microanalysis:**

	Carbon	Hydrogen	Nitrogen
Theoretical	43.69	6.42	7.28
Found	43.15	6.49	7.13

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

**Product Name:** EGTA

**Catalog No.:** 2807

**5**

CAS Number: 67-42-5

EC Number: 200-651-2

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

**Description:**

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

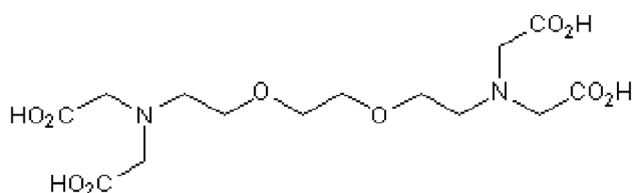
**Physical and Chemical Properties:**

Batch Molecular Formula: C<sub>14</sub>H<sub>24</sub>N<sub>2</sub>O<sub>10</sub>.1/4H<sub>2</sub>O

Batch Molecular Weight: 384.85

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. \*Unless contradicted by product-specific protocols or instructions, our standard recommendations apply:

**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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