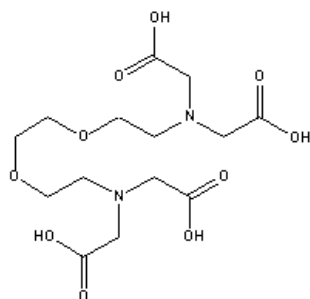


Catalog Number: 194823, 195174

Ethylene Glycol-bis-(beta-Aminoethylether)-N,N,N',N'- tetraacetic acid

Structure:



Molecular Formula: C₁₄H₂₄N₂O₁₀

Molecular Weight: 380.4

CAS # : 67-42-5

Synonyms: EGTA; GEDTA; O,O'-bis(2-aminoethyl) ethyleneglycol-N,N,N',N'-tetraacetic acid; Ethylene glycol-bis(2-aminoethylether)-N,N,N',N'-tetraacetic acid

Physical Description: White crystalline powder

Description: Chelating agent for determination of calcium in the presence of magnesium; can also detect cadmium in the presence of zinc. Can act as a metalloprotease inhibitor (effective concentration is typically 1 to 10 μ M). Useful for the removal of heavy metal ions in biological systems.

Purity: >98%

Solubility: Soluble in alkaline solutions (1 g in 10 ml 1 N NaOH + 50 ml water-clear, colorless solution)

[Click Here for a list of other protease inhibitors offered by MP Biomedicals and general protease inhibitor information.](#)

Availability:

Catalog Number	Description	Size
195175	Ethylene glycol- bis(beta-aminoethylether)-N,N,N',N'- tetraacetic acid	10 g 25 g 100 g 250 g 500 g
194823	Ethylene glycol- bis(beta-aminoethylether)-N,N,N',N'- tetraacetic acid, molecular biology reagent	10 g 25 g 100 g 500 g

References:

- Schmidt, R.W., and Reilly, C.N., *Anal. Chem.*, **v. 29**, 264 (1957).
- Burg, R.A. and Conaghan, H.F., "Chelometric determination of calcium and magnesium in minerals." *Chemist-Analyst*, **v. 49**, 100 (1960).
- Austin, J.H. and Klett, C.A., "EGTA titration of calcium in algae samples high in magnesium and phosphatas" *Chemist-Analyst*, **v. 55**, 11 (1966)
- Bers, D.M., *Am. J. Physiol.*, **v. 242**, C404 (1982).