



>>Entry Name: *N*-(2-Hydroxyethyl)ethylenediaminetriacetic acid

Synonym(s): *N*-[2-[Bis(carboxymethyl)amino]ethyl]-*N*-(2-hydroxyethyl)glycine, 9Cl. EDTA-OH. *N*-(Carboxymethyl)-*N'*-(2-hydroxyethyl)-*N,N'*-ethylenediglycine, 8Cl. Chel DM acid. Detarol. Hamp-OL. HEDTA. HEEDTA. Versenol



CAS Registry Number: 150-39-0

Related CAS Registry Numbers(s): 139-89-9 30718-90-2

Molecular Formula: C₁₀H₁₈N₂O₇

Molecular Weight: 278.261

Accurate Mass: 278.111403

Percentage Composition: C 43.16%; H 6.52%; N 10.07%; O 40.25%

Use/Importance: Used as titrant in chelatometric titrations; masking agent for various metals. Commercially available

Physical Description: Cryst.

Melting Point: Mp 160-165 dec.°. Mp 212 dec.°

pKa Value: pK_{a1} 2.51; pK_{a2} 5.31; pK_{a3} 9.86

Aldrich: H2650-2

Fluka: 54215

Sigma: H8126

>>Derivative: Tri-Na salt

CAS Registry Number: 139-89-9

Melting Point: Mp 288 dec.° (hydrate)

Fluka: 54320

Sigma: H2378

References:

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Holzbecher, Z. *et al.*, *Handbook of Organic Reagents in Inorganic Chemistry*, Horwood, Chichester, 1976

Baisden, P.A. *et al.*, *Inorg. Chem.*, 1977, **16**, 1367, (*pmr*)

Cheng, K.L. *et al.*, *Handbook of Organic Analytical Reagents*, CRC Press, Boca Raton, 1982

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