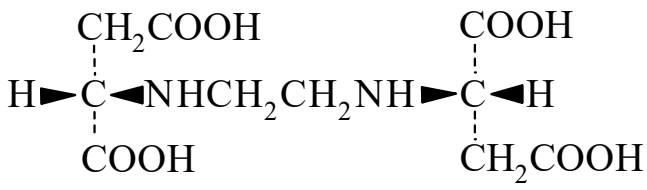
>>**Entry Name: *N*,*N*'-Ethylenediaminedisuccinic acid**
Synonym(s): *N*,*N*'-Ethenediylbisaspartic acid, 9CI



Molecular Formula: $C_{10}H_{16}N_2O_8$
Molecular Weight: 292.245
Accurate Mass: 292.090668
Percentage Composition: C 41.10%; H 5.52%; N 9.59%; O 43.80%
General Statement: Amino acid antibiotic
Solubility: BERDY SOL: Fairly sol. H_2O; poorly sol. MeOH, C_6H_6
UV: [neutral] λ_{max} 0 (end) (ε) (H_2O) (Derep) [neutral] λ_{max} (H_2O) (Berdy)

>>**Variant:** (*S*,*S*)-form
Synonym(s): L-form

CAS Registry Number: 20846-91-7

Molecular Formula: $C_{10}H_{16}N_2O_8$
Molecular Weight: 292.245
Accurate Mass: 292.090668
Percentage Composition: C 41.10%; H 5.52%; N 9.59%; O 43.80%
Biological Source: Isol. from Actinomycete MG417-CF17
Use/Importance: Inhibits phospholipases C and D. Suppresses delayed type hypersensitivity and antibody formation. Shows suppression of T and B blastogenesis *in vitro*. Chelating agent
Physical Description: Needles
Melting Point: Mp 147-149°
Optical Rotation: $[\alpha]_D^{22}$+31.2 (c, 1 in 6*M* HCl)

References:

Neal, J.A. *et al.*, *Inorg. Chem.*, 1968, **7**, 2405, *(synth)*
Nishikiori, T. *et al.*, *J. Antibiot.*, 1984, **37**, 426, *(isol, pmr, cmr, props)*