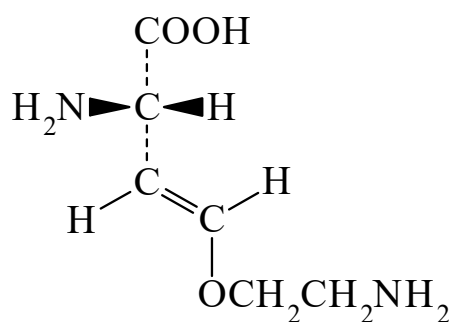




>>Entry Name: 2-Amino-4-(2-aminoethoxy)-3-butenic acid, 9CI

Synonym(s): Aminoethoxyvinylglycine



Molecular Formula: C₆H₁₂N₂O₃

Molecular Weight: 160.172

Accurate Mass: 160.084793

Percentage Composition: C 44.99%; H 7.55%; N 17.49%; O 29.97%

UV: [neutral] λ_{max} 0 (end) (ε) (MeOH) (Derep)

>>Variant: (S)-(E)-form

Synonym(s): AVG

CAS Registry Number: 49669-74-1

Molecular Formula: C₆H₁₂N₂O₃

Molecular Weight: 160.172

Accurate Mass: 160.084793

Percentage Composition: C 44.99%; H 7.55%; N 17.49%; O 29.97%

Biological Source: Antimetab. from *Streptomyces* sp. X-11085

Biological Use/Importance: Antibiotic, anthelmintic. Plant growth regulator

Physical Description: Cryst. (MeOH aq.)

Solubility: BERDY SOL: Sol. H₂O; poorly sol. MeOH, hexane

UV: [neutral] λ_{max} (H₂O) (Berdy)

Hazard & Toxicity: BERDY HAZD : LD₅₀ (mus, orl) 500 mg/kg

>>Derivative: Hydrochloride

CAS Registry Number: 55720-26-8

Melting Point: Mp 185-186°

Optical Rotation: [α]_D²⁵+85.8 (c, 1.0 in H₂O)

Hazard & Toxicity: LD₅₀ (rat, orl) >5000 mg/kg

Aldrich: 35962-9

Fluka: 6665

Sigma: A1284

References:

U.S. Pat., 1973, 3 751 459; *CA*, **79**, 90607d, (*isol*)

Pruess, D.L. *et al.*, *J. Antibiot.*, 1974, **27**, 229, (*isol*)

Scannell, J.P. *et al.*, *J. Antibiot.*, 1976, **29**, 38, (*struct*)

Keith, D.D. *et al.*, *J.O.C.*, 1978, **43**, 3713, (*synth, ir, nmr*)

Pesticide Manual, 12th edn., 2000, 25