



>>Entry Name: Lycomarasmine

Synonym(s): *N*-[2-[(2-Amino-2-oxoethyl)amino]-2-carboxyethyl]aspartic acid, 9Cl

CAS Registry Number: 7611-43-0

$\text{HOOCCH}_2\text{CH}(\text{COOH})\text{NHCH}_2\text{CH}(\text{COOH})\text{NHCH}_2\text{CONH}_2$

Molecular Formula: $\text{C}_9\text{H}_{15}\text{N}_3\text{O}_7$

Molecular Weight: 277.233

Accurate Mass: 277.091002

Percentage Composition: C 38.99%; H 5.45%; N 15.16%; O 40.40%

Biological Source: Metab. of *Fusarium lycopersici* and *Fusarium oxysporum*

Use/Importance: Wilt-producing agent

Melting Point: Mp 227-229 dec.°

Optical Rotation: $[\alpha]_{\text{D}} -49$ (H_2O)

Solubility: BERDY SOL: Sol. H_2O , MeOH; fairly sol. H_2O ; poorly sol. acids, bases

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

Hazard & Toxicity: BERDY HAZD : LD₅₀ (mus, ivn) 600 mg/kg

References:

Hardegger, E. *et al.*, *Helv. Chim. Acta*, 1963, **46**, 60, (*struct*)

Barbier, M., *CA*, 1973, **78**, 53477, (*biosynth*)

Poppystone, C.R. *et al.*, *Can. J. Chem.*, 1973, **51**, 3943, (*biosynth*)

Tamura, S. *et al.*, *CA*, 1976, **85**, 138354, (*rev*)

Chakrabarti, D.K. *et al.*, *Experientia*, 1976, **32**, 608, (*manuf*)