



>>Entry Name: 8-Hydroxy-2,4,6-octatriynoic acid

$\text{HOCH}_2\text{C}\equiv\text{CC}\equiv\text{CC}\equiv\text{CCOOH}$

Molecular Formula: $\text{C}_8\text{H}_4\text{O}_3$

Molecular Weight: 148.118

Accurate Mass: 148.016045

Percentage Composition: C 64.87%; H 2.72%; O 32.41%

>>Derivative: Amide

Synonym(s): 8-Hydroxy-2,4,6-octatriynamide. **Agrocybin**

CAS Registry Number: 544-44-5

Molecular Formula: $\text{C}_8\text{H}_5\text{NO}_2$

Molecular Weight: 147.133

Accurate Mass: 147.032029

Percentage Composition: C 65.31%; H 3.43%; N 9.52%; O 21.75%

Biological Source: From *Agrocybe dura* and *Marasmius oreades*

Use/Importance: Antifungal antibiotic. Phytotoxin

Physical Description: Cryst. (EtOH aq.)

Melting Point: Mp 130-140 dec.°

Solubility: Sol. EtOH, Me_2CO , Et_2O ; BERDY SOL: Sol. MeOH, Et_2O ; fairly sol. H_2O ; poorly sol. hexane

UV: [neutral] λ_{max} 216 (ϵ 67600); 224 (ϵ 87000); 269 (ϵ 1740); 286 (ϵ 2400); 304 (ϵ 3020); 325 (ϵ 1950) (MeOH) (Berdy)

Hazard & Toxicity: Causes dermatitis. LD_{50} (mus, ivn) 6 mg/kg ; BERDY HAZD : LD_{50} (mus, ivn) 6 mg/kg

References:

Jones, E.R.H. *et al.*, *J.C.S.*, 1953, 3719

Bu'Lock, J.D. *et al.*, *Chem. Ind. (London)*, 1954, 990, (*struct*)

Ashworth, P.J. *et al.*, *J.C.S.*, 1958, 950, (*synth, ir*)

Ayer, W.A. *et al.*, *Can. J. Chem.*, 1989, **67**, 1371, (*isol*)