



>>Entry Name: *N*-(2-Hydroxyethyl)cinnamamide, 8CI

Synonym(s): *N*-(2-Hydroxyethyl)-3-phenyl-2-propenamide, 9CI. **Idrocilamide**, INN. Brolitene. Srilane. Talval. LCB 29

CAS Registry Number: 6961-46-2

PhCH=CHCONHCH₂CH₂OH

Molecular Formula: C₁₁H₁₃NO₂

Molecular Weight: 191.229

Accurate Mass: 191.094629

Percentage Composition: C 69.09%; H 6.85%; N 7.32%; O 16.73%

Biological Source: Alkaloid from leaves of *Erythrophleum chlorostachys* (Leguminosae)

Use/Importance: Muscle relaxant, antiinflammatory agent

Physical Description: Cryst. (CHCl₃/petrol or EtOH/petrol)

Melting Point: Mp 101° (97°)

Calculated Log P Data: Log P 1.12 (calc)

Hazard & Toxicity: LD₅₀ (mus, orl) 2950 mg/kg. Adverse effects incl. gastrointestinal disturbances and drowsiness

>>Derivative: *N*-Me

Synonym(s): *N*-(2-Hydroxyethyl)-*N*-methylcinnamamide. *N*-(2-Hydroxyethyl)-*N*-methyl-3-phenyl-2-propenamide, 9CI

CAS Registry Number: 30687-16-2

Molecular Formula: C₁₂H₁₅NO₂

Molecular Weight: 205.256

Accurate Mass: 205.110279

Percentage Composition: C 70.22%; H 7.37%; N 6.82%; O 15.59%

Biological Source: Alkaloid from leaves of *Erythrophleum chlorostachys* (Leguminosae)

Physical Description: Cryst. (EtOH/petrol or C₆H₆)

Melting Point: Mp 78°

Hazard & Toxicity: LD₅₀ (mus, orl) 3000 mg/kg

>>Derivative: *N*-Me, 4-hydroxy

Synonym(s): *N*-(2-Hydroxyethyl)-*N*-methyl-*p*-hydroxycinnamamide. *N*-(2-Hydroxyethyl)-3-(4-hydroxyphenyl)-*N*-methyl-2-propenamide, 9CI

CAS Registry Number: 35241-60-2

Molecular Formula: C₁₂H₁₅NO₃

Molecular Weight: 221.255

Accurate Mass: 221.105194

Percentage Composition: C 65.14%; H 6.83%; N 6.33%; O 21.69%

Biological Source: Alkaloid from leaves of *Erythrophleum chlorostachys* (Leguminosae)

Physical Description: Cryst. (EtOH)

Melting Point: Mp 176-177°

References:

- Behrens, O.K. *et al.*, *J. Biol. Chem.*, 1948, **175**, 771, (*synth*)
Griffin, W.J. *et al.*, *Phytochemistry*, 1971, **10**, 2793, (*isol, ir, struct, synth*)
Grand, M. *et al.*, *Eur. J. Med. Chem. (Chim. Ther.)*, 1974, **9**, 205, (*pharmacol*)
Xu, J. *et al.*, *Zhongguo Yiyao Gongye Zazhi*, 1990, **21**, 70; *CA*, **113**, 70738x, (*pharmacol, tox*)
Martindale, The Extra Pharmacopoeia, 30th edn., Pharmaceutical Press, 1993, 1205