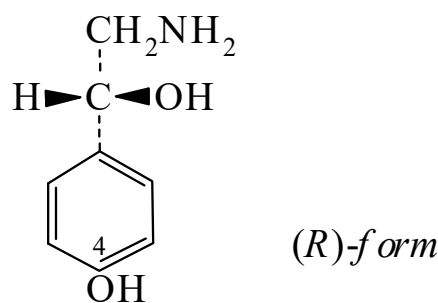




>>Entry Name: Octopamine, INN

ENTRY UNDER REVIEW

Synonym(s): α -(Aminomethyl)-4-hydroxybenzenemethanol, 9Cl. α -(Aminomethyl)-*p*-hydroxybenzyl alcohol, 8Cl. 2-Amino-1-(4-hydroxyphenyl)ethanol. *p*-(β -Amino- α -hydroxyethyl)phenol. Norsympathol. Norsynephrine. Noroxedrine. Many other names



CAS Registry Number: 104-14-3

Molecular Formula: C₈H₁₁NO₂

Molecular Weight: 153.18

Accurate Mass: 153.078979

Percentage Composition: C 62.73%; H 7.24%; N 9.14%; O 20.89%

Hazard & Toxicity: LD₅₀ (rat, orl) 1240 mg/kg. LD₅₀ (mus, ipr) 600 mg/kg

>>Variant: (*R*)-form

CAS Registry Number: 876-04-0

Molecular Formula: C₈H₁₁NO₂

Molecular Weight: 153.18

Accurate Mass: 153.078979

Percentage Composition: C 62.73%; H 7.24%; N 9.14%; O 20.89%

Biological Source: Alkaloid from leaves of bell pepper (*Capsicum frutescens*), leaves or fruit of *Citrus* spp., and leaves of nutgrass (*Cyperus rotundus*) and *Cyperus papyrus* (Solanaceae, Rutaceae, Cyperaceae). Occurs in many animal tissues; found in high concs. in the posterior salivary gland of *Octopus vulgaris*

Biological Use/Importance: Invertebrate neurotransmitter. In vertebrates, prob. a cotransmitter with noradrenaline. Adrenergic

Physical Description: Cryst. (H₂O)

Melting Point: Mp 160 approx.°

Optical Rotation: $[\alpha]_D^{25}$ -37.4 (c, 1 in H₂O). $[\alpha]_D$ -56 (c, 1 in 1M HCl)

>>Derivative: *N*-Me

>>Derivative: *O*⁴-Me

Synonym(s): 4-Methoxy- β -hydroxyphenethylamine. α -(Aminomethyl)-4-methoxybenzenemethanol, 9Cl. Alkaloid NP

CAS Registry Number: 46084-23-5

Molecular Formula: C₉H₁₃NO₂

Molecular Weight: 167.207

Accurate Mass: 167.094629

Percentage Composition: C 64.65%; H 7.84%; N 8.38%; O 19.14%

Biological Source: Minor alkaloid from *Coryphantha cornifera*, also detected in *Pereskia grandiflora* and *Pereskia chapistle* (Cactaceae)

Biological Use/Importance: Shows weak vasoconstrictor and cardiac depressant props.

Other Data: Tentative identification, not obt. cryst. Opt. rotn. and abs. config. not detd.

>>Variant: (*S*)-form

CAS Registry Number: 826-01-7

Molecular Formula: C₈H₁₁NO₂

Molecular Weight: 153.18

Accurate Mass: 153.078979

Percentage Composition: C 62.73%; H 7.24%; N 9.14%; O 20.89%

Melting Point: Mp 160°

Optical Rotation: $[\alpha]_D^{25}$ +37.2 (c, 1 in H₂O). $[\alpha]_D^{25}$ +56.1 (c, 1 in 0.1N HCl)

>>Variant: ($\pm$)-form