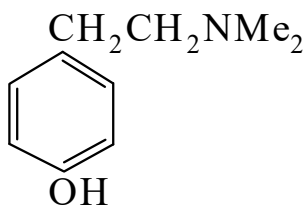




>>Entry Name: **Hordenine**

Synonym(s): 4-(2-Dimethylaminoethyl)phenol, 9Cl. Eremursine. Anhaline. Peyocactine. *N*-Dimethyltyramine. Cactine



CAS Registry Number: 539-15-1

Molecular Formula: C₁₀H₁₅NO

Molecular Weight: 165.235

Accurate Mass: 165.115364

Percentage Composition: C 72.69%; H 9.15%; N 8.48%; O 9.68%

Biological Source: Alkaloid from *Anhalonium fissuratum*, *Hordeum vulgare*, a very wide range of plant spp. esp. in the Cactaceae. Also present in the Amaryllidaceae, Gramineae, Leguminosae and a few algae and fungi

Biological Use/Importance: Diuretic, disinfectant, antihypotensive (in large doses) agent. Used for treatment of dysentery. Feeding repellent for grasshoppers. Shows similar actions to 2-(Methylamino)-1-phenyl-1-propanol [BCJ45-G](#)

Melting Point: Mp 118°

Boiling Point: Bp₁₁ 173-174°

Calculated Log P Data: Log P 1.17 (calc)

>>Derivative: Hydrochloride

Melting Point: Mp 176-177°

>>Derivative: Sulfate (2:1)

CAS Registry Number: 622-64-0

Melting Point: Mp 207-208°

>>Derivative: *N*-Me

Synonym(s): **Candicine**. Maltoxin

CAS Registry Number: 6656-13-9

Molecular Formula: C₁₁H₁₈NO⁽⁺⁾

Molecular Weight: 180.269

Accurate Mass: 180.138839

Percentage Composition: C 73.29%; H 10.06%; N 7.77%; O 8.88%

Biological Source: Quaternary alkaloid from *Trichocereus candicans*, *Trichocereus lamprochlorus*, *Trichocereus spachianus*, several *Desmodium* spp. (Cactaceae, Leguminosae) and several other spp. in different families. Also from mescal (*Lophophora williamsii*)

Hazard & Toxicity: Toxic, LD₅₀ (rat) 50 mg/kg

>>Derivative: *N*-Me, chloride

Molecular Formula: C₁₁H₁₈ClNO

Molecular Weight: 215.722

Accurate Mass: 215.107691

Percentage Composition: C 61.25%; H 8.41%; Cl 16.43%; N 6.49%; O 7.42%

Melting Point: Mp 285 dec.°

>>Derivative: *N*-Me, iodide

CAS Registry Number: 1976-98-3

Molecular Formula: C₁₁H₁₈INO

Molecular Weight: 307.174

Accurate Mass: 307.043312

Percentage Composition: C 43.01%; H 5.91%; I 41.31%; N 4.56%; O 5.21%

Melting Point: Mp 230-231°

Rare Chemicals Library: S42439-0

>>Derivative: Me ether