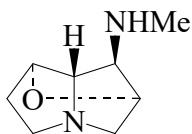




>>Entry Name: Loline

Synonym(s): Hexahydro-*N*-methyl-2,4-methano-4*H*-furo[3,2-*b*]pyrrol-3-amine, 9Cl. 2,7-Epoxy-1-methylaminopyrrolizidine. Festucine



Absolute
Configuration

CAS Registry Number: 25161-91-5

Molecular Formula: C₈H₁₄N₂O

Molecular Weight: 154.211

Accurate Mass: 154.110613

Percentage Composition: C 62.31%; H 9.15%; N 18.17%; O 10.37%

Biological Source: Alkaloid from the grasses *Lolium cuneatum*, *Lolium temulentum* and *Festuca arundinacea* (Gramineae)

Physical Description: Oil

Boiling Point: Bp₇₃₁ 229°. Bp₅ 103°

Density: d₂₀²⁰ 1.134

pKa Value: pK_a 2.5

Refractive Index: n_D²² 1.5505

>>Derivative: Hydrochloride (1:2)

CAS Registry Number: 25161-92-6

Physical Description: Needles (EtOH)

Melting Point: Mp 256-257 dec.° (237-242° dec.)

Optical Rotation: [α]_D¹⁵ +6.2 (H₂O)

>>Derivative: *N*-Formyl

Synonym(s): *N*-Formylloline

CAS Registry Number: 38964-33-9

Molecular Formula: C₉H₁₄N₂O₂

Molecular Weight: 182.222

Accurate Mass: 182.105528

Percentage Composition: C 59.32%; H 7.74%; N 15.37%; O 17.56%

Biological Source: Alkaloid from *Lolium cuneatum* (Gramineae)

Physical Description: Cryst.

Melting Point: Mp 93-94°

Optical Rotation: [α]_D²⁰ +47.9 (c, 0.73 in CHCl₃)

>>Derivative: *N*-Ac

Synonym(s): Lolinine. *N*-Acetylloline

CAS Registry Number: 4914-36-7

Molecular Formula: C₁₀H₁₆N₂O₂

Molecular Weight: 196.249

Accurate Mass: 196.121178

Percentage Composition: C 61.20%; H 8.22%; N 14.27%; O 16.31%

Melting Point: Mp 73°

Optical Rotation: [α]_D²⁰ +36.9

>>Derivative: *N*-Ac, *N*-oxide

Synonym(s): Lolinine *N*-oxide. *N*-Acetylloline *N*-oxide

CAS Registry Number: 61391-09-1

Molecular Formula: C₁₀H₁₆N₂O₃

Molecular Weight: 212.248

Accurate Mass: 212.116093

Percentage Composition: C 56.59%; H 7.60%; N 13.20%; O 22.61%

Biological Source: From *Lolium cuneatum* (Gramineae)

Physical Description: Oil

Optical Rotation: [α]_D²⁰ +21.6 (c, 0.9 in MeOH)