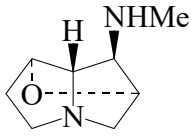
>>**Entry Name: Loline**
Synonym(s): Hexahydro-*N*-methyl-2,4-methano-4*H*-furo[3,2-*b*]pyrrol-3-amine, 9CI. 2,7-Epoxy-1-methylaminopyrrolizidine. Festucine



Absolute Configuration

CAS Registry Number: 25161-91-5

Molecular Formula: $C_8H_{14}N_2O$
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: Bp_{731} 229°. Bp_5 103°
Density: d^{20} 1.134
pKa Value: pK_a 2.5
Refractive Index: n_D^{22} 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: $[\alpha]_D^{15}$+6.2 (H_2O)

>>**Derivative:** *N*-Formyl
Synonym(s): *N*-Formylloline

CAS Registry Number: 38964-33-9

Molecular Formula: $C_9H_{14}N_2O_2$
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: $[\alpha]_D^{20}$+47.9 (c, 0.73 in $CHCl_3$)

>>**Derivative:** *N*-Ac
Synonym(s): Lolinine. *N*-Acetylloline

CAS Registry Number: 4914-36-7

Molecular Formula: $C_{10}H_{16}N_2O_2$
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: $[\alpha]_D^{20}$+36.9

>>**Derivative:** *N*-Ac, *N*-oxide
Synonym(s): Lolinine *N*-oxide. *N*-Acetylloline *N*-oxide

CAS Registry Number: 61391-09-1

Molecular Formula: $C_{10}H_{16}N_2O_3$
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: $[\alpha]_D^{20}$+21.6 (c, 0.9 in MeOH)

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