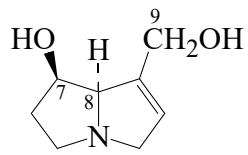
>>**Entry Name: 2,3,5,7*a*-Tetrahydro-1-hydroxy-1*H*-pyrrolizine-7-methanol,** 9CI
Synonym(s): 7-Hydroxy-1-hydroxymethyl-1,2-didehydropyrrolizidine



(7*R*,8*R*)-*form*

Related CAS Registry Numbers(s): 875-22-9 6029-83-0 17690-54-9 133738-52-0 133738-53-1

Molecular Formula: $C_8H_{13}NO_2$
Molecular Weight: 155.196
Accurate Mass: 155.094629
Percentage Composition: C 61.91%; H 8.44%; N 9.03%; O 20.62%

>>**Variant:** (7*R*,8*R*)-form
Synonym(s): Retronecine

CAS Registry Number: 480-85-3

Molecular Formula: $C_8H_{13}NO_2$
Molecular Weight: 155.196
Accurate Mass: 155.094629
Percentage Composition: C 61.91%; H 8.44%; N 9.03%; O 20.62%

Physical Description: Cryst. (Me_2CO or by subl.)
Melting Point: Mp 121-122°
Optical Rotation: $[\alpha]_D^{26}$+50.2 (EtOH)
Solubility: Sol. H_2O, EtOH; spar. sol. Et_2O; BERDY SOL: Sol. EtOH, H_2O; fairly sol. Me_2CO, $CHCl_3$; poorly sol. Et_2O, hexane
pKa Value: pK_a 8.88 (26°)
UV: [neutral] λ_{max} 0 (end) (ε) (MeOH) (Derep)
Other Data: Does not form a picrate
Hazard & Toxicity: LD_{50} (mus, ivn) 634 mg/kg ; BERDY HAZD : LD_{50} (mus, ivn) 634 mg/kg

>>**Derivative:** Hydrochloride

Melting Point: Mp 162-163°
Optical Rotation: $[\alpha]_D^{15}$–16 (EtOH)

>>**Derivative:** *N*-Oxide
Synonym(s): Retronecine *N*-oxide

CAS Registry Number: 6870-33-3

Molecular Formula: $C_8H_{13}NO_3$
Molecular Weight: 171.196
Accurate Mass: 171.089544
Percentage Composition: C 56.13%; H 7.65%; N 8.18%; O 28.04%
Biological Source: Alkaloid from *Senecio caudatus* and *Werneria decora*

>>**Derivative:** O^7-(3-Methylbutanoyl)
Synonym(s): O^7-(3-Methylbutanoyl)retronecine

CAS Registry Number: 63503-35-5

Molecular Formula: $C_{13}H_{21}NO_3$
Molecular Weight: 239.314
Accurate Mass: 239.152144
Percentage Composition: C 65.25%; H 8.84%; N 5.85%; O 20.06%
Biological Source: Constit. of *Crotalaria scassellatii*

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