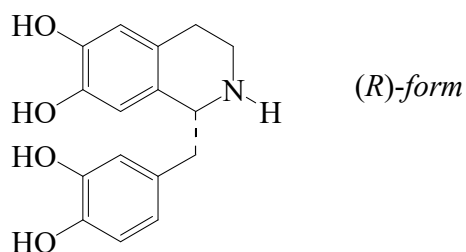




**>>Entry Name: Norlaudanosoline**

**Synonym(s):** 1-[(3,4-Dihydroxyphenyl)methyl]-1,2,3,4-tetrahydro-6,7-isoquinolinediol, 9Cl. Tetrahydropapaveroline. 1-(3,4-Dihydroxybenzyl)-1,2,3,4-tetrahydro-6,7-isoquinolinediol, 8Cl



**CAS Registry Number:** 4747-99-3

**Molecular Formula:** C<sub>16</sub>H<sub>17</sub>NO<sub>4</sub>

**Molecular Weight:** 287.315

**Accurate Mass:** 287.115759

**Percentage Composition:** C 66.89%; H 5.96%; N 4.88%; O 22.27%

**Biological Source:** Formed in brain striatum of ethanol consuming rats. Formerly believed to be a biosynthetic precursor of morphine in *Papaver somniferum*, now disproved

**Biological Use/Importance:** Dopaminergic and opioid receptor ligand implicated in alcohol addiction. Urinary metabolite of DOPA treated Parkinsonian patients

**>>Variant: (R)-form**

**CAS Registry Number:** 57073-16-2

**Molecular Formula:** C<sub>16</sub>H<sub>17</sub>NO<sub>4</sub>

**Molecular Weight:** 287.315

**Accurate Mass:** 287.115759

**Percentage Composition:** C 66.89%; H 5.96%; N 4.88%; O 22.27%

**>>Derivative:** Hydrochloride

**CAS Registry Number:** 2292-26-4

**Melting Point:** Mp 285-286°

**Optical Rotation:** [ $\alpha$ ]<sub>D</sub><sup>25</sup> +32.1 (c, 1 in H<sub>2</sub>O)

**>>Variant: (S)-form**

**CAS Registry Number:** 57073-15-1

**Molecular Formula:** C<sub>16</sub>H<sub>17</sub>NO<sub>4</sub>

**Molecular Weight:** 287.315

**Accurate Mass:** 287.115759

**Percentage Composition:** C 66.89%; H 5.96%; N 4.88%; O 22.27%

**Other Data:** Air-sensitive

**>>Derivative:** Hydrochloride

**CAS Registry Number:** 2292-27-5

**Physical Description:** Cryst. (6M HCl)

**Melting Point:** Mp 285-286°

**Optical Rotation:** [ $\alpha$ ]<sub>D</sub><sup>25</sup> -32.4 (c, 1 in H<sub>2</sub>O)

**>>Variant: (±)-form**

**CAS Registry Number:** 19481-41-5

**Extra CAS Registry Numbers(s):** 67200-79-7

**Molecular Formula:** C<sub>16</sub>H<sub>17</sub>NO<sub>4</sub>

**Molecular Weight:** 287.315

**Accurate Mass:** 287.115759

**Percentage Composition:** C 66.89%; H 5.96%; N 4.88%; O 22.27%

**>>Derivative:** Hydrochloride

**CAS Registry Number:** 70761-62-5

**Melting Point:** Mp 291-293° (dec.)

**>>Derivative:** Hydrobromide