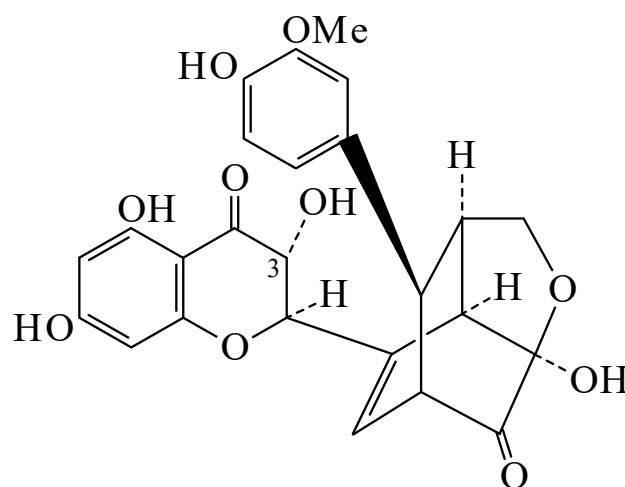




>>Entry Name: Silydianin

Synonym(s): Silidianin, INN. Silybum substance E5



CAS Registry Number: 29782-68-1

Molecular Formula: $C_{25}H_{24}O_{10}$

Molecular Weight: 484.458

Accurate Mass: 484.13695

Percentage Composition: C 61.98%; H 4.99%; O 33.03%

Biological Source: Constit. of *Silybum marianum*

Use/Importance: Hepatoprotective agent, plant growth regulator. Antioxidant

Melting Point: Mp 191°

Optical Rotation: $[\alpha]_D^{24} +175$ (Me₂CO). $[\alpha]_D +218$

>>Derivative: 3-Deoxy

Synonym(s): Silymonin

CAS Registry Number: 70815-31-5

Molecular Formula: $C_{25}H_{24}O_9$

Molecular Weight: 468.459

Accurate Mass: 468.142035

Percentage Composition: C 64.10%; H 5.16%; O 30.74%

Biological Source: Constit. of *Silybum marianum*

Physical Description: Cryst.

Melting Point: Mp 258-260°

Optical Rotation: $[\alpha]_D +127$

References:

- Janiak, B. *et al.*, *Planta Med.*, 1960, **8**, 71, (*isol*)
Abraham, D.J. *et al.*, *Tet. Lett.*, 1970, 2675, (*struct*)
Hoelzl, J., *Z. Naturforsch., C*, 1974, **29**, 82, (*biosynth*)
Wagner, H. *et al.*, *Z. Naturforsch., B*, 1976, **31**, 876, (*isol, ms, pmr, cryst struct, abs config*)
Szilágyi, I. *et al.*, *Herba Hung.*, 1978, **17**, 65, (*isol*)