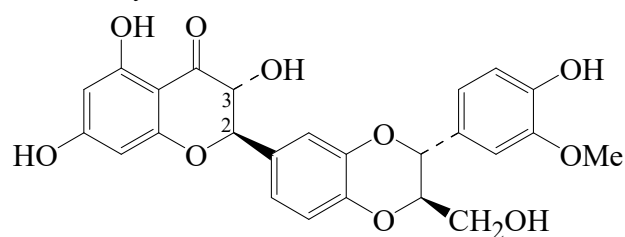




>>Entry Name: Silybin

Synonym(s): Silibinin, INN. Silybum substance E6. Silymarin. Many other names



CAS Registry Number: 22888-70-6

Extra CAS Registry Numbers(s): 87725-91-5 142797-34-0

Molecular Formula: C₂₅H₂₂O₁₀

Molecular Weight: 482.443

Accurate Mass: 482.1213

Percentage Composition: C 62.24%; H 4.60%; O 33.16%

Biological Source: Isol. from *Silybum marianum*

Use/Importance: Drug used for treatment of brain oedema and liver disorders. Hepatoprotective agent, antioxidant

Physical Description: Cryst. + 1H₂O (Me₂CO/petrol)

Melting Point: Mp 167°

Optical Rotation: [α]_D²⁰ +11 (c, 0.25 in Me₂CO)

Other Data: Dec. at 180°

Aldrich: 25492-4

Sigma: S0417

>>Derivative: 2,3-Didehydro

Synonym(s): 2,3-Dehydrosilybin

CAS Registry Number: 25166-14-7

Molecular Formula: C₂₅H₂₀O₁₀

Molecular Weight: 480.427

Accurate Mass: 480.10565

Percentage Composition: C 62.50%; H 4.20%; O 33.30%

Biological Source: Constit. of *Silybum marianum*

Melting Point: Mp 254-255°

References:

Aldrich Library of FT-IR Spectra, 1st edn., 1985, **2**, 97C, (ir)

Zoltan, O.T. *et al.*, *Arzneim.-Forsch.*, 1970, **20**, 1248, (pharmacol)

Pelter, A. *et al.*, *Chem. Ber.*, 1975, **108**, 790, (isol, struct)

Hänsel, R. *et al.*, *Chem. Ber.*, 1975, **108**, 1482, (isol, struct)

Cavallini, L. *et al.*, *Gazz. Med. Ital.*, 1976, **135**, 365, (rev)

Merlini, L. *et al.*, *J.C.S. Perkin I*, 1980, 775, (synth)

Lotter, H. *et al.*, *Z. Naturforsch., C*, 1983, **38**, 339, (cryst struct)

Tanaka, H. *et al.*, *Chem. Pharm. Bull.*, 1984, **33**, 1419, (synth)

Negwer, M., *Organic-Chemical Drugs and their Synonyms*, 6th edn., Akademie-Verlag, 1987, 7244, (synonyms)

Merikli, A.H., *Planta Med.*, 1988, **54**, 44, (Dehydrosilybin)

Delfini, M. *et al.*, *Spectrosc. Lett.*, 1990, **23**, 1007, (pmr, conformn)

Martindale, *The Extra Pharmacopoeia*, 30th edn., Pharmaceutical Press, 1993, 693

Morazzoni, P. *et al.*, *Fitoterapia*, 1995, **6**, 3, (rev)