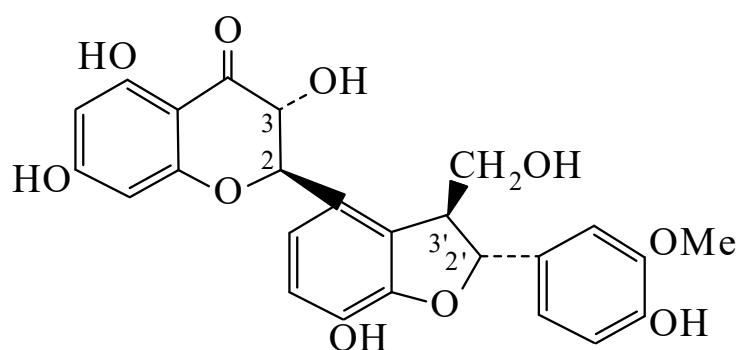




>>Entry Name: Silychristin

Synonym(s): Silicristin, INN. Silymarin II



CAS Registry Number: 33889-69-9

Related CAS Registry Numbers(s): 119435-01-7 125762-44-9

Molecular Formula: $C_{25}H_{22}O_{10}$

Molecular Weight: 482.443

Accurate Mass: 482.1213

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

Biological Source: Isol. from fruits of *Silybum marianum*

Use/Importance: Inhibitor of horseradish peroxidases and lipoxygenase. Plant growth regulator, antihepatotoxic agent

Physical Description: Cryst. (H_2O)

Melting Point: Mp 174-176°

Optical Rotation: $[\alpha]_D^{23} +81.4$ (Py)

>>Derivative: 2,3-Didehydro

Synonym(s): 2,3-Dehydrosilychristin

CAS Registry Number: 57499-41-9

Molecular Formula: $C_{25}H_{20}O_{10}$

Molecular Weight: 480.427

Accurate Mass: 480.10565

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

Biological Source: Constit. of the fruit of *Silybum marianum anatolicum*

Melting Point: Mp 254-256°

References:

- Wagner, H. *et al.*, *Tet. Lett.*, 1971, 1895, (isol)
Bandopadhyay, M. *et al.*, *Indian J. Chem.*, 1972, **10**, 808, (isol)
Greiml, A. *et al.*, *Experientia*, 1977, **33**, 1417
Wagner, H. *et al.*, *Tet. Lett.*, 1978, 381, (struct)
Fiebrich, F. *et al.*, *Experientia*, 1979, **35**, 1548, (props)
Zanarotti, A., *Heterocycles*, 1982, **19**, 1585, (stereochem, cd)
Merikli, A.H., *Planta Med.*, 1988, **54**, 44, (Dehydrosilychristin)
Tanaka, H. *et al.*, *Chem. Pharm. Bull.*, 1989, **37**, 1441, (synth)
Delfini, M. *et al.*, *Spectrosc. Lett.*, 1990, **23**, 1007, (pmr, conformn)