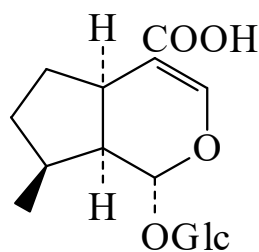




>>Entry Name: Deoxyloganic acid

Synonym(s): 1,5,9-Epideoxyloganic acid



CAS Registry Number: 92842-56-3

Molecular Formula: C₁₆H₂₄O₉

Molecular Weight: 360.36

Accurate Mass: 360.142035

Percentage Composition: C 53.33%; H 6.71%; O 39.96%

Biological Source: Constit. of *Nepeta cataria*

Physical Description: Needles

Melting Point: Mp 106 dec.°

Optical Rotation: [α]_D +85.1 (c, 1.1 in MeOH)

Other Data: Formerly designated 5-Epideoxyloganic acid. The abs. config. shown appears to be the correct one (see w.r.t. Loganic acid [JFS68-N](#))

>>Derivative: β-D-Glucopyranosyl ester

Molecular Formula: C₂₂H₃₄O₁₄

Molecular Weight: 522.502

Accurate Mass: 522.19486

Percentage Composition: C 50.57%; H 6.56%; O 42.87%

Biological Source: Constit. of *Nepeta cadmea*

Physical Description: Amorph. powder

Optical Rotation: [α]_D²⁷ +37.2 (c, 0.98 in MeOH)

UV: [neutral] λ_{max} 240 (log ε 4.01) (MeOH)

>>Derivative: 1,5,8,9-Tetraepimer

Synonym(s): 8-Epideoxyloganic acid

CAS Registry Number: 88668-99-9

Molecular Formula: C₁₆H₂₄O₉

Molecular Weight: 360.36

Accurate Mass: 360.142035

Percentage Composition: C 53.33%; H 6.71%; O 39.96%

Biological Source: Constit. of *Incarvillea delavayi*

Biological Use/Importance: Shows antinociceptive activity

Physical Description: Cryst.

Melting Point: Mp 213-214°

Optical Rotation: [α]_D -122 (c, 0.29 in MeOH)

References:

- Damtoft, S. *et al.*, *Phytochemistry*, 1983, **22**, 1929-1930, (*8-Epideoxyloganic acid*)
Murai, F. *et al.*, *Chem. Pharm. Bull.*, 1984, **32**, 2809
Takeda, Y. *et al.*, *Phytochemistry*, 1998, **48**, 787-791, (*glucosyl ester*)
Nakamura, M. *et al.*, *Phytochemistry*, 2000, **53**, 253-256, (*8-Epideoxyloganic acid*)