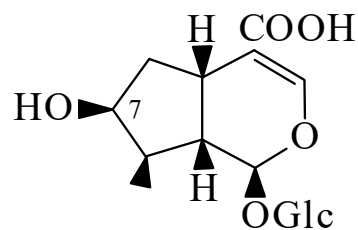




>>Entry Name: Loganic acid



CAS Registry Number: 22255-40-9

Molecular Formula:  $C_{16}H_{24}O_{10}$

Molecular Weight: 376.36

Accurate Mass: 376.13695

Percentage Composition: C 51.06%; H 6.43%; O 42.51%

Biological Source: Constit. of *Swertia caroliniensis* and *Dipsacus asperoides*

Physical Description: Powder

Melting Point: Mp 168 dec.°

Optical Rotation:  $[\alpha]_D^{26} -86.2$  (c, 0.5 in  $H_2O$ )

>>Derivative: Me ester

Synonym(s): Loganin. Meliatin. Loganoside

CAS Registry Number: 18524-94-2

Molecular Formula:  $C_{17}H_{26}O_{10}$

Molecular Weight: 390.386

Accurate Mass: 390.1526

Percentage Composition: C 52.30%; H 6.71%; O 40.98%

Biological Source: Constit. of *Strychnos nux-vomica* and *Menyanthes trifoliata* and other spp.

Use/Importance: Key intermed. in biosynth. of many alkaloids

Physical Description: Cryst. (EtOH)

Melting Point: Mp 223°

Optical Rotation:  $[\alpha]_D -83$  ( $H_2O$ )

Solubility: BERDY SOL: Sol.  $H_2O$ ; poorly sol. hexane

>>Derivative: 6'-O- $\alpha$ -D-Glucopyranosyl

CAS Registry Number: 342047-45-4

Molecular Formula:  $C_{22}H_{34}O_{15}$

Molecular Weight: 538.502

Accurate Mass: 538.189775

Percentage Composition: C 49.07%; H 6.36%; O 44.57%

Biological Source: Constit. of *Alangium lamarkii*

Physical Description: Powder

>>Derivative: 6'-O- $\beta$ -D-Glucopyranosyl

CAS Registry Number: 176226-39-4

Molecular Formula:  $C_{22}H_{34}O_{15}$

Molecular Weight: 538.502

Accurate Mass: 538.189775

Percentage Composition: C 49.07%; H 6.36%; O 44.57%

Biological Source: Constit. of *Dipsacus asperoides*

Physical Description: Powder

Melting Point: Mp 208-209 dec.°

Optical Rotation:  $[\alpha]_D^{25} -54.4$  (c, 0.5 in  $H_2O$ )

>>Derivative: 7-O-[2,3-Dihydroxybenzoyl-( $\rightarrow$ 6)- $\beta$ -D-glucopyranoside], 2,3-dihydroxyphenyl ester

Synonym(s): Depressoside

CAS Registry Number: 96935-16-9