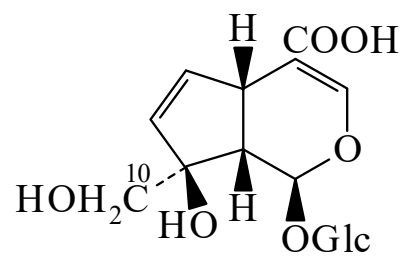




>>Entry Name: Gardenosidic acid



CAS Registry Number: 94482-97-0

Molecular Formula: C₁₆H₂₂O₁₁

Molecular Weight: 390.343

Accurate Mass: 390.116215

Percentage Composition: C 49.23%; H 5.68%; O 45.09%

Biological Source: Constit. of *Galium mollugo*

Physical Description: Cryst. (as hexa-Ac, Me ester)

Melting Point: Mp 66-68° (hexa-Ac, Me ester)

Optical Rotation: [α]_D -70.7 (c, 1.15 in MeOH) (hexa-Ac, Me ester)

>>Derivative: Me ester

Synonym(s): Gardenoside

CAS Registry Number: 24512-62-7

Molecular Formula: C₁₇H₂₄O₁₁

Molecular Weight: 404.37

Accurate Mass: 404.131865

Percentage Composition: C 50.50%; H 5.98%; O 43.52%

Physical Description: Powder

Melting Point: Mp 118-120°

Optical Rotation: [α]_D -100.8 (MeOH)

>>Derivative: 10-Aldehyde, Me ester

Synonym(s): 10-Dehydrogardenoside

Molecular Formula: C₁₇H₂₂O₁₁

Molecular Weight: 402.354

Accurate Mass: 402.116215

Percentage Composition: C 50.75%; H 5.51%; O 43.74%

Biological Source: Constit. of *Randia canthioides*

Physical Description: Amorph. powder (as penta-Ac)

References:

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Bailleul, A. *et al.*, *Phytochemistry*, 1977, **16**, 723, (*cmr*)
Bianco, A. *et al.*, *Gazz. Chim. Ital.*, 1978, **108**, 13, (*Gardenosidic acid*)
Damtoft, S. *et al.*, *Phytochemistry*, 1981, **20**, 2717, (*cmr*)
Uesato, S. *et al.*, *Phytochemistry*, 1982, **21**, 353; 1984, **23**, 2535, (*isol*)
Kobayashi, K. *et al.*, *Chem. Pharm. Bull.*, 1985, **33**, 4228, (*biosynth*)
Nakatani, K. *et al.*, *Bull. Chem. Soc. Jpn.*, 1993, **66**, 2646, (*synth*)