CAS Registry Number: 525-21-3

Molecular Formula: $C_{11}H_{10}O_5$
Molecular Weight: 222.197
Accurate Mass: 222.052825
Percentage Composition: C 59.46%; H 4.54%; O 36.00%
Biological Source: Constit. of the bark of ash (*Fraxinus excelsior*) and from *Artemisia scotina*
Physical Description: Cryst. (H_2O)
Melting Point: Mp 196-197°

>>**Derivative:** 7-Me ether, 8-*O*-β-D-glucopyranoside

CAS Registry Number: 58970-71-1

Molecular Formula: $C_{17}H_{20}O_{10}$
Molecular Weight: 384.339
Accurate Mass: 384.10565
Percentage Composition: C 53.13%; H 5.24%; O 41.63%
Biological Source: Constit. of the bark of *Fraxinus excelsior*
Physical Description: Cryst. (EtOH)
Melting Point: Mp 193-195°
Optical Rotation: $[\alpha]_D^{19}$ -49 (c, 0.5 in H_2O)

>>**Derivative:** 7-*O*-(2-Hydroxy-3-methylbutanoyl)
Synonym(s): Haptusinol

CAS Registry Number: 74133-24-7

Molecular Formula: $C_{15}H_{16}O_7$
Molecular Weight: 308.287
Accurate Mass: 308.089605
Percentage Composition: C 58.44%; H 5.23%; O 36.33%
Biological Source: Constit. of *Haplophyllum obtusifolium*
Physical Description: Cryst.
Melting Point: Mp 119-120°
Optical Rotation: $[\alpha]_D$ 0

>>**Derivative:** 7-*O*-(4-Hydroxy-3-methyl-2-butenyl) (*Z*-)
Synonym(s): Obtusicin

CAS Registry Number: 77369-04-1

Molecular Formula: $C_{15}H_{16}O_6$
Molecular Weight: 292.288
Accurate Mass: 292.09469
Percentage Composition: C 61.64%; H 5.52%; O 32.84%
Biological Source: Constit. of *Haplophyllum obtusifolium*
Physical Description: Cryst.
Melting Point: Mp 89-91°

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