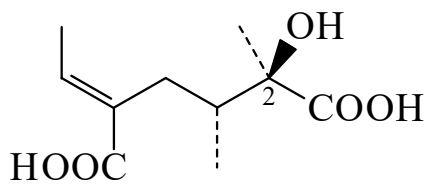
>>**Entry Name: 5-Ethylidene-2-hydroxy-2,3-dimethylhexanedioic acid,** 9CI
Synonym(s): 6-Hydroxy-5-methyl-2-heptene-3,6-dicarboxylic acid



(2*R*,3*R*,5*E*)-*form*

CAS Registry Number: 6703-97-5
Related CAS Registry Numbers(s): 10407-75-7

Molecular Formula: $C_{10}H_{16}O_5$
Molecular Weight: 216.233
Accurate Mass: 216.099775
Percentage Composition: C 55.55%; H 7.46%; O 37.00%

>>**Variant:** (2*R*,3*R*,5*E*)-form
Synonym(s): Integerrinecic acid

CAS Registry Number: 469-45-4

Molecular Formula: $C_{10}H_{16}O_5$
Molecular Weight: 216.233
Accurate Mass: 216.099775
Percentage Composition: C 55.55%; H 7.46%; O 37.00%
Biological Source: Necic acid from pyrrolizidine alkaloids
Physical Description: Cryst. (EtOAc)
Melting Point: Mp 149-150°
Optical Rotation: $[\alpha]_D^{18}$+15.9 (c, 1 in EtOH)

>>**Derivative:** Bis-4-phenylphenacyl ester

Melting Point: Mp 100-101°

>>**Derivative:** δ-Lactone

CAS Registry Number: 34081-94-2
Molecular Formula: $C_{10}H_{14}O_4$
Molecular Weight: 198.218
Accurate Mass: 198.08921
Percentage Composition: C 60.59%; H 7.12%; O 32.29%
Melting Point: Mp 153°
Optical Rotation: $[\alpha]_D^{25}$+40 (c, 0.94 in EtOH)

>>**Variant:** (2*R*,3*R*,5*Z*)-form
Synonym(s): Senecic acid. Senecionic acid

CAS Registry Number: 13588-16-4

Molecular Formula: $C_{10}H_{16}O_5$
Molecular Weight: 216.233
Accurate Mass: 216.099775
Percentage Composition: C 55.55%; H 7.46%; O 37.00%
Biological Source: Necic acid component of pyrrolizidine alkaloids, e.g. Senecionine
Melting Point: Mp 151°
Optical Rotation: $[\alpha]_D$ +11.8 (c, 2 in EtOH)

>>**Derivative:** Bis-4-phenylphenacyl ester

Physical Description: Amorph. (EtOH)
Melting Point: Mp 100-101°

>>**Derivative:** δ-Lactone

CAS Registry Number: 28822-16-4
Melting Point: Mp 129-130°
Other Data: (*E*)-lactone is formed if lactonisation is carried out under normal conditions

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