



>>Entry Name: 10-Hydroxy-2-decenoic acid

CAS Registry Number: 765-01-5

Related CAS Registry Numbers(s): 105410-17-1

HOCH2(CH2)6CH=CHCOOH

Molecular Formula: $C_{10}H_{18}O_3$

Molecular Weight: 186.25

Accurate Mass: 186.125595

Percentage Composition: C 64.49%; H 9.74%; O 25.77%

>>Variant: (E)-form

Synonym(s): Royal jelly acid

CAS Registry Number: 14113-05-4

Molecular Formula: $C_{10}H_{18}O_3$

Molecular Weight: 186.25

Accurate Mass: 186.125595

Percentage Composition: C 64.49%; H 9.74%; O 25.77%

Biological Source: Constit. of royal jelly

Melting Point: Mp 52-53°. Mp 64.5-65°

Solubility: BERDY SOL: Sol. MeOH, Et₂O, bases; poorly sol. H₂O

>>Derivative: Et ester

CAS Registry Number: 57221-93-9

Molecular Formula: $C_{12}H_{22}O_3$

Molecular Weight: 214.304

Accurate Mass: 214.156895

Percentage Composition: C 67.26%; H 10.35%; O 22.40%

Physical Description: Oil

>>Variant: (Z)-form

CAS Registry Number: 131532-29-1

Molecular Formula: $C_{10}H_{18}O_3$

Molecular Weight: 186.25

Accurate Mass: 186.125595

Percentage Composition: C 64.49%; H 9.74%; O 25.77%

Melting Point: Mp 73.5-74.5°

References:

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Vig, O.P. *et al.*, *J. Indian Chem. Soc.*, 1975, **52**, 538, (*synth*)

Tsuji, J. *et al.*, *Bull. Chem. Soc. Jpn.*, 1977, **50**, 2507, (*synth*)

Pain, J. *et al.*, *Apidologie*, 1978, **9**, 263, (*glc*)

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