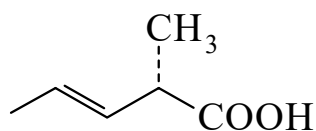




>>Entry Name: 2-Methyl-3-pentenoic acid, 9CI

ENTRY UNDER REVIEW

Synonym(s): 2-Pentene-4-carboxylic acid. FEMA 3464



CAS Registry Number: 37674-63-8

Related CAS Registry Numbers(s): 55894-36-5 55894-37-6 71011-55-7 71048-89-0

Molecular Formula: C₆H₁₀O₂

Molecular Weight: 114.144

Accurate Mass: 114.06808

Percentage Composition: C 63.14%; H 8.83%; O 28.03%

Use/Importance: Flavouring ingredient

Boiling Point: Bp₇₄₀ 198-199°

>>Variant: (*S,E*)-form

CAS Registry Number: 71048-90-3

Molecular Formula: C₆H₁₀O₂

Molecular Weight: 114.144

Accurate Mass: 114.06808

Percentage Composition: C 63.14%; H 8.83%; O 28.03%

Optical Rotation: [α]_D²³+63.6

Other Data: The (±)-(*E*)- and (±)-(*Z*)-forms have been prepd. but their constants have not been publ.

>>Derivative: (Previously 38328- B-) (Previously 38328- -1) Et ester

Synonym(s): FEMA 3456

CAS Registry Number: 1617-23-8

Extra CAS Registry Numbers(s): 16489-03-5 58625-89-1

Use/Importance: Flavouring ingredient

Boiling Point: Bp₅₀ 85-91°

Other Data: Stereochem. not known

References:

Fichter, F. *et al.*, *Ber.*, 1904, **37**, 1616, (*synth*)

Bunnell, C.A. *et al.*, *J.A.C.S.*, 1977, **99**, 5184, (*synth, resoln*)

Corey, E.J. *et al.*, *Tet. Lett.*, 1979, 335, (*synth*)

van der Veen, R.H. *et al.*, *J.O.C.*, 1985, **50**, 342, (*synth, pmr*)

Girard, C. *et al.*, *Tet. Lett.*, 1989, **30**, 7399, (*synth*)

Fenaroli's Handbook of Flavor Ingredients, 3rd edn., (ed. Burdock, G.A.), CRC Press, 1995, **1**, 250; **2**, 542, (*Et ester*)

Encyclopedia of Food and Color Additives, (ed. Burdock, G.A.), CRC Press, 1997, 1826-1827; 1011, (*Et ester*)