



>>Variant: (±)-form

CAS Registry Number: 10303-64-7

Molecular Formula: C₆H₁₂O₃

Molecular Weight: 132.159

Accurate Mass: 132.078645

Percentage Composition: C 54.53%; H 9.15%; O 36.32%

Melting Point: Mp 76-77°

Sigma: H9251

>>Derivative: Et ester

CAS Registry Number: 74364-76-4

Boiling Point: Bp₁₆ 80-81°

Solubility: Spar. sol. H₂O

>>Derivative: Amide

CAS Registry Number: 4122-69-4

Molecular Formula: C₆H₁₃NO₂

Molecular Weight: 131.174

Accurate Mass: 131.094629

Percentage Composition: C 54.94%; H 9.99%; N 10.68%; O 24.39%

Melting Point: Mp 51-52°

>>Derivative: Nitrile, Ac

Molecular Formula: C₈H₁₃NO₂

Molecular Weight: 155.196

Accurate Mass: 155.094629

Percentage Composition: C 61.91%; H 8.44%; N 9.03%; O 20.62%

Boiling Point: Bp 204°

>>Derivative: Me ester

Synonym(s): FEMA 3706

CAS Registry Number: 40348-72-9

Molecular Formula: C₇H₁₄O₃

Molecular Weight: 146.186

Accurate Mass: 146.094295

Percentage Composition: C 57.51%; H 9.65%; O 32.83%

Use/Importance: Flavouring ingredient

Physical Description: Liq

Boiling Point: Bp₁₀ 72°

Refractive Index: n_D²⁰ 1.4250

References:

Aldrich Library of FT-IR Spectra, 1st edn., 1985, **1**, 519A; 519B, (*ir*)

Aldrich Library of 13C and 1H FT NMR Spectra, 1992, **1**, 809B; 809C, (*nmr*)

Scheibler, H. *et al.*, *Ber.*, 1911, **44**, 2686, (*synth*)

Abderhalden, E. *et al.*, *Hoppe Seyler's Z. Physiol. Chem.*, 1913, **84**, 53, (*synth*)

Fukuzumi, T. *et al.*, *Agric. Biol. Chem.*, 1965, **29**, 967, (*isol*)

Fuganti, C. *et al.*, *Gazz. Chim. Ital.*, 1969, **99**, 316, (*abs config*)

Mori, K., *Tetrahedron*, 1976, **32**, 1101, (*synth, abs config*)

Fenaroli's Handbook of Flavor Ingredients, 3rd edn., (ed. Burdock, G.A.), CRC Press, 1995, **1**, 514, (*Me ester*)

Encyclopedia of Food and Color Additives, (ed. Burdock, G.A.), CRC Press, 1997, 1782, (*Me ester*)