



Synonym(s): Butyl ethyl malonate. FEMA 2195

CAS Registry Number: 17373-84-1

Molecular Formula: C₉H₁₆O₄

Molecular Weight: 188.223

Accurate Mass: 188.10486

Percentage Composition: C 57.43%; H 8.57%; O 34.00%

Use/Importance: Flavouring agent

Melting Point: Mp 222°

Density: d¹⁷ 1.03

References:

- Aldrich Library of FT-IR Spectra, 1st edn.*, 1985, **1**, 490C; 614A; 614C; 740A; 767B, (*ir*)
- Aldrich Library of 13C and 1H FT NMR Spectra*, 1992, **1**, 764C; 935A; 936B; 936C; 1211A; 1252C, (*nmr*)
- Aldrich Library of FT-IR Spectra: Vapor Phase*, 1989, **3**, 636D; 637B; 637C, (*ir*)
- Hauser, C.R. *et al.*, *J.A.C.S.*, 1942, **64**, 2714, (*synth*)
- Org. Synth., Coll. Vol.*, 2, 1943, 376, (*synth*)
- Galat, A., *J.A.C.S.*, 1948, **70**, 2596, (*monoamide*)
- Baker, B.R., *J.O.C.*, 1952, **17**, 77, (*dibenzyl ester*)
- Bentley, L.E., *Nature (London)*, 1952, **170**, 847, (*occur*)
- Gran, G. *et al.*, *Anal. Chim. Acta*, 1956, **14**, 150
- Ratusky, J. *et al.*, *CA*, 1957, **51**, 138, (*ester*)
- Dawson, J. *et al.*, *Mikrochim. Acta*, 1958, 325; 330, (*detn, Sn*)
- Org. Synth., Coll. Vol.*, 4, 1963, 261; 263; 417, (*derivs*)
- Rodd's Chem. Carbon Compd. (2nd edn.)*, 1965, **1D**, 293
- Dashkevich, L.B. *et al.*, *Zh. Obshch. Khim.*, 1965, **35**, 253-255; *J. Gen. Chem. USSR (Engl. Transl.)*, 1965, **35**, 256-257, (*dibutyl ester*)
- Barnikow, G., *J. Prakt. Chem.*, 1966, **34**, 251, (*derivs*)
- Fieser and Fieser's Reagents for Organic Synthesis*, Wiley, 1967, **1**, 211; **8**, 193; 1975, **9**, 493; **5**, 722
- Kappe, T., *Monatsh. Chem.*, 1967, **98**, 874, (*Magic malonate*)
- Wadier, C. *et al.*, *Mikrochim. Acta*, 1971, 303, (*detn, Pd*)
- Karrer, W. *et al.*, *Konstitution und Vorkommen der Organischen Pflanzenstoffe*, 2nd edn., Birkhäuser Verlag, Basel, 1972, no. 836, (*occur*)
- Pichat, L. *et al.*, *Synthesis*, 1973, 537, (*synth, use, Et, Me₃Si diester, Li salt*)
- Holzbecher, Z. *et al.*, *Handbook of Organic Reagents in Inorganic Analysis*, Horwood, Chichester, 1976
- Grakauskas, V. *et al.*, *J.O.C.*, 1978, **43**, 3485-3488, (*mono-Me ester*)
- Taylor, E.C. *et al.*, *Org. Prep. Proced. Int.*, 1978, **10**, 221-224, (*use, Et, Me₃Si diester, Li salt*)
- Dalvi, M.B. *et al.*, *Talanta*, 1978, **25**, 599, (*detn, U*)
- Opdyke, D.L.J., *Food Cosmet. Toxicol.*, 1979, **17**, 363, (*rev, tox, di-Me ester*)
- Kimura, Y. *et al.*, *Agric. Biol. Chem.*, 1981, **45**, 249-252, (*dibutyl ester, activity*)
- Paull, K.D. *et al.*, *J. Het. Chem.*, 1988, **25**, 911, (*Malonanilic acid*)
- Tomida, M. *et al.*, *J. Polym. Sci., Part C*, 1989, **27**, 219, (*polyamides*)
- Kirk-Othmer Encycl. Chem. Technol.*, 4th edn., Wiley, 1991, **15**, 928, (*rev*)
- Balicki, R. *et al.*, *Synth. Commun.*, 1993, **23**, 3149, (*amide-ester*)
- Fenaroli's Handbook of Flavor Ingredients*, 3rd edn., (ed. Burdock, G.A.), CRC Press, 1995, **1**, 84, (*Et butyl ester*)
- Shih, H. *et al.*, *Synth. Commun.*, 1996, **26**, 833, (*monoanilide*)
- Encyclopedia of Food and Color Additives*, (ed. Burdock, G.A.), CRC Press, 1997, 338-339, (*Et butyl ester*)
- Lewis, R.J., *Sax's Dangerous Properties of Industrial Materials*, 8th edn., Van Nostrand Reinhold, 1992, CCC750; MAO000; DSM200