



>>Entry Name: Glycerol tributanoate

Synonym(s): 1,2,3-Propanetriyl tributanoate. Glycerol tributyrate. Tributyrin. NSC 661583

CAS Registry Number: 60-01-5

$\text{H}_3\text{CCH}_2\text{CH}_2\text{COOCH}(\text{CH}_2\text{OOCCH}_2\text{CH}_2\text{CH}_3)_2$

Molecular Formula: $\text{C}_{15}\text{H}_{26}\text{O}_6$

Molecular Weight: 302.367

Accurate Mass: 302.17294

Percentage Composition: C 59.58%; H 8.67%; O 31.75%

Biological Use/Importance: Prodrug of Butanoic acid [HCX15-D](#). Possible agent for cytodifferentiation therapy

Physical Description: Liq. with bitter taste

Boiling Point: Bp 305-310°. Bp₁₅ 190°

Hazard & Toxicity: LD₅₀ (mus, ivn) 320 mg/kg. Fl. p. >66°, autoignition temp. 407°

Aldrich: W22230-5

Fluka: 91012

Rare Chemicals Library: S44617-3

Sigma: T5142

References:

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Mityushova, N.M. *et al.*, *Dokl. Akad. Nauk SSSR*, 1976, **230**, 992

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Drackley, J.K. *et al.*, *J. Dairy Sci.*, 1989, **72**, 1986-1995, (metab)

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