



**Fluka:** 14150  
**Sigma:** S0755

>>Derivative: Mono-Et ester

**CAS Registry Number:** 1070-34-4  
**Molecular Formula:**  $C_6H_{10}O_4$   
**Molecular Weight:** 146.143  
**Accurate Mass:** 146.05791  
**Percentage Composition:** C 49.31%; H 6.90%; O 43.79%  
**Melting Point:** Mp  $-22^\circ$   
**Boiling Point:** Bp  $217^\circ$ . Bp<sub>10</sub> 139-140°  
**pKa Value:** pK<sub>a</sub> 4.52 (25°, H<sub>2</sub>O)

>>Derivative: Di-Et ester

**Synonym(s):** Diethyl succinate. Ethyl succinate

**CAS Registry Number:** 123-25-1  
**Molecular Formula:**  $C_8H_{14}O_4$   
**Molecular Weight:** 174.196  
**Accurate Mass:** 174.08921  
**Percentage Composition:** C 55.16%; H 8.10%; O 36.74%  
**Use/Importance:** Flavour ingredient  
**Melting Point:** Mp  $-21^\circ$   
**Boiling Point:** Bp  $217.7^\circ$ . Bp<sub>15</sub> 105°  
**Solubility:** Insol. H<sub>2</sub>O; sol. EtOH, Et<sub>2</sub>O, Me<sub>2</sub>CO  
**Density:** d<sub>4</sub><sup>25</sup> 1.04  
**Refractive Index:** n<sub>D</sub><sup>20</sup> 1.4201  
**Hazard & Toxicity:** Fl. p. 90°. Skin and eye irritant. LD<sub>50</sub> (rat, orl) 8530 mg/kg

**Aldrich:** W23770-1  
**Fluka:** 14100

>>Derivative: Monopropyl ester

**CAS Registry Number:** 6946-88-9  
**Molecular Formula:**  $C_7H_{12}O_4$   
**Molecular Weight:** 160.169  
**Accurate Mass:** 160.07356  
**Percentage Composition:** C 52.49%; H 7.55%; O 39.96%  
**Melting Point:** Mp  $15^\circ$   
**Boiling Point:** Bp<sub>3</sub> 126°  
**Density:** d<sup>20</sup> 1.107  
**Refractive Index:** n<sub>D</sub><sup>20</sup> 1.4343

>>Derivative: Dipropyl ester

**Synonym(s):** Dipropyl succinate. Propyl succinate

**CAS Registry Number:** 925-15-5  
**Molecular Formula:**  $C_{10}H_{18}O_4$   
**Molecular Weight:** 202.25  
**Accurate Mass:** 202.12051  
**Percentage Composition:** C 59.39%; H 8.97%; O 31.64%  
**Melting Point:** Mp  $-11^\circ$   
**Boiling Point:** Bp  $248^\circ$   
**Solubility:** Sol. Me<sub>2</sub>CO, C<sub>6</sub>H<sub>6</sub>, Et<sub>2</sub>O  
**Density:** d<sup>20</sup> 1.002  
**Refractive Index:** n<sub>D</sub><sup>20</sup> 1.4250