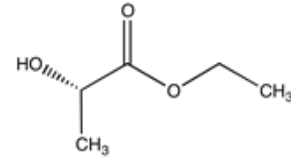


**Identification**

C<sub>5</sub>H<sub>10</sub>O<sub>3</sub>  
M = 118,14 g/mol  
CAS [687-47-8]  
EC number: 211-694-1  
Taric code: 2918 11 00

**Synonyms**

L(-)-Lactic acid ethyl ester, (S)-(-)-2-Hydroxypropanoic acid ethyl ester

**Applications**

synthesis of organic products, solvents.

**Specifications**

assay (G.C.)..... min. 98 %  
identity (IR-spectrum)..... passes test

density (20°/4°)..... 1,032 - 1,034  
residue on evaporation..... max. 0,01 %

**Physical data**

- Density: 1,03 g/cm<sup>3</sup>
- Solub. in water: (25 °C): miscible
- Melting point: -25 °C
- Boiling point: 154 °C
- Flash point: 46 °C
- Ignition temperature: 400 °C
- Vapour pressure: (20 °C) 1,6 hPa
- Refraction index: (n 25 °C) 1,411
- Viscosity: (25 °C) 2,7 mPas
- Expl. limit (upper): 11,4 Vol%
- Expl. limit (lower): 1,5 Vol%
- pH(50 g/l H<sub>2</sub>O, 20 °C) ~ 4

**Safety - GHS**

Signal Word: Danger

**Hazard Statements:**

H318: Causes serious eye damage.  
H226: Flammable liquid and vapour.  
H335: May cause respiratory irritation.

**Precautionary Statements:**

P210: Keep away from heat / sparks / open flames / hot surfaces. - No smoking.  
P303+P361+P353: IF ON SKIN (or hair): Remove / Take off immediately all contaminated clothing. Rinse skin with water / shower.  
P305+P351+P338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.  
P310: Immediately call a POISON CENTER or doctor / physician.  
P370+P378: In case of fire: Use ... for extinction.  
P405: Store locked up.  
P501a: Dispose of contents / container in accordance with local / regional / national / international regulations.

**Transport/storage**

- ADR: 3 F1 III • UN 1192 • ETHYL LACTATE
- IMDG: 3 III • UN 1192 • ETHYL LACTATE
- IATA/ICAO: 3 III • UN 1192 • ETHYL LACTATE
- PAX: 309
- CAO: 310
- 10°C - 30°C