



Melting Point: Fp -73°

Boiling Point: Bp 99°

Solubility: Mod. sol. H_2O

Density: d_4^{20} 0.891

Refractive Index: n_D^{20} 1.3844

Hazard & Toxicity: Flammable, fl. p. 12° , autoignition temp. $440/476^{\circ}$. Skin irritant

Aldrich: 11230-5

Fluka: 81920

Sigma: P9131

Supelco: S48-2456

>>**Derivative:** Vinyl ester

Synonym(s): Vinyl propionate

CAS Registry Number: 105-38-4

Molecular Formula: $\text{C}_5\text{H}_8\text{O}_2$

Molecular Weight: 100.117

Accurate Mass: 100.05243

Percentage Composition: C 59.98%; H 8.05%; O 31.96%

Source/Synthesis: Manuf. from acetylene and propanoic acid

Use/Importance: Monomer for radical polym.

Physical Description: Liq.

Boiling Point: Bp 95°

Solubility: Insol. H_2O

Density: d^{20} 0.92

Refractive Index: n_D^{20} 1.4003

Other Data: Q/e values for copolym., Q 0.027, e -0.68

Aldrich: 40171-4

Rare Chemicals Library: S67900-3

>>**Derivative:** Propyl ester

Synonym(s): Propyl propionate

CAS Registry Number: 106-36-5

Molecular Formula: $\text{C}_6\text{H}_{12}\text{O}_2$

Molecular Weight: 116.16

Accurate Mass: 116.08373

Percentage Composition: C 62.04%; H 10.41%; O 27.55%

Physical Description: Liq.

Boiling Point: Bp 122°

Density: d^0 0.893

Hazard & Toxicity: Fl. p. 79° (oc). Skin irritant

Aldrich: W29581-7

Fluka: 82000

Rare Chemicals Library: S43169-9

>>**Derivative:** 2-Propenyl ester

Synonym(s): FEMA 2040. Allyl propionate

CAS Registry Number: 2408-20-0

Molecular Formula: $\text{C}_6\text{H}_{10}\text{O}_2$

Molecular Weight: 114.144

Accurate Mass: 114.06808

Percentage Composition: C 63.14%; H 8.83%; O 28.03%

Use/Importance: Used in fruit food flavouring

Boiling Point: Bp $123-125^{\circ}$

Aldrich: W20400-5