



>>Entry Name: Ethyl acetate, 9CI

ENTRY UNDER REVIEW

Synonym(s): Ethyl ethanoate. Acetic ester. FEMA 2414

CAS Registry Number: 141-78-6

H₃CCOOEt

Molecular Formula: C₄H₈O₂

Molecular Weight: 88.106

Accurate Mass: 88.05243

Percentage Composition: C 54.53%; H 9.15%; O 36.32%

Biological Source: Found in cereal crops, radishes, fruit juices, beer, wine, spirits etc. and produced by *Anthemis nobilis* and *Rubus* spp. and inks for marking fruit and vegetables

Use/Importance: Used in artificial fruit essences; as a solvent; in the manuf. of plastics, perfumes etc. Used in printing inks, adhesives and lacquers. Used as a solvent in extraction sepn. of UO₂(NO₃)₂

Physical Description: A volatile flammable liq. with characteristic, fruity odour

Solubility: Misc. most org. solvs., sol. 13 parts H₂O at 15°, less sol. at higher temps.

Other Data: Slowly hydrol. by H₂O. Forms azeotrope with H₂O, 6.1% w/w, Bp 70.4°

Hazard & Toxicity: Highly flammable, fl. p. -4°, autoignition temp. 426°. May ignite or explode with LiAlH₄. Irritant to eyes, skin and mucous membranes. High vapour conc. narcotic and can damage liver and kidneys. Prolonged or repeated exposure causes conjunctival irritation and corneal clouding. LD₅₀ (rat, orl) 5620 mg/kg. OES: long-term 400 ppm

Aldrich: 43916-9

Fluka: 45780

Sigma: E7770

Supelco: R42-7510

References:

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