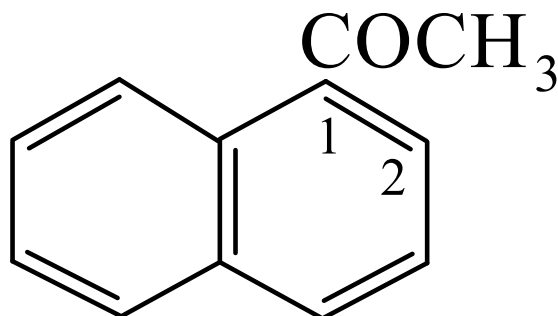




>>Entry Name: 1-Acetylnaphthalene

Synonym(s): 1-(1-Naphthyl)ethanone, 9CI. 1'-Acetonaphthone, 8CI. Methyl α -naphthyl ketone. Acetonaphthone



CAS Registry Number: 941-98-0

Molecular Formula: C₁₂H₁₀O

Molecular Weight: 170.21

Accurate Mass: 170.073165

Percentage Composition: C 84.68%; H 5.92%; O 9.40%

Use/Importance: Perfumery ingredient

Physical Description: Cryst.

Melting Point: Mp 34°

Boiling Point: Bp₁₅ 154-157°. Bp₆ 143-145°

pKa Value: pK_{a1} -5.41 (20°, H₂SO₄ aq.)

Hazard & Toxicity: Skin irritant. LD₅₀ (rat, orl) 1560 mg/kg

Aldrich: 27676-6

Fluka: 67990

Rare Chemicals Library: S87994-0

References:

Aldrich Library of 13C and 1H FT NMR Spectra, 1992, **2**, 821C, (nmr)

Aldrich Library of FT-IR Spectra: Vapor Phase, 1989, **3**, 1239A, (ir)

Nunn, L.G. *et al.*, *J.O.C.*, 1947, **12**, 540, (synth)

Skulski, L., *Bull. Acad. Pol. Sci., Ser. Sci. Chim.*, 1969, **17**, 253, (uv)

Morris, W.W., *J. Assoc. Off. Anal. Chem.*, 1973, **56**, 1037, (ir)

Adcock, W. *et al.*, *Aust. J. Chem.*, 1974, **27**, 1817, (cmr)

Selikson, S.J. *et al.*, *J.O.C.*, 1975, **40**, 267, (synth)

Dorofeenko, G.N. *et al.*, *Zh. Org. Khim.*, 1975, **11**, 2424, (synth)

Opdyke, D.L.J., *Food Chem. Toxicol.*, 1982, **20**, 755, (rev, tox)

Lewis, R.J., *Sax's Dangerous Properties of Industrial Materials*, 8th edn., Van Nostrand Reinhold, 1992, ABC475