



>>Entry Name: 1-Fluoro-2-propanone, 9CI, 8CI

Synonym(s): Fluoroacetone

CAS Registry Number: 430-51-3

$\text{H}_3\text{CCOCH}_2\text{F}$

Molecular Formula: $\text{C}_3\text{H}_5\text{FO}$

Molecular Weight: 76.07

Accurate Mass: 76.032443

Percentage Composition: C 47.37%; H 6.62%; F 24.97%; O 21.03%

Biological Source: Tentatively identified as a metab. of *Acacia georginae*, prob. as an aberrant prod. of fatty acid biosynth. A metab. prod. of fluoroacetate in rat liver

Physical Description: Yellow or colourless liq.

Solubility: Mod. sol. H_2O , forming a const. boiling mixt.

Aldrich: 11546-0

Sigma: F4509

>>Derivative: 2,4-Dinitrophenylhydrazone

Physical Description: Orange cryst. (EtOH or isopropanol)

Melting Point: Mp 118-119°. Mp 134-135°

>>Derivative: Semicarbazone

Physical Description: Cryst.

Melting Point: Mp 142-143° (140°, 131-135°)

References:

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Crowder, G.A. *et al.*, *J. Chem. Phys.*, 1967, **47**, 367, (*ir*)
Yates, K. *et al.*, *Spectrochim. Acta A*, 1969, **25**, 765, (*uv*)
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