



>>Entry Name: Fluorenone-4-carboxylic acid

Synonym(s): 9-Oxo-9*H*-fluorene-4-carboxylic acid, 9Cl

CAS Registry Number: 6223-83-2

Structure by analogy with Fluorenone-1-carboxylic acid, [BLK34-S](#)

Molecular Formula: C₁₄H₈O₃

Molecular Weight: 224.215

Accurate Mass: 224.047345

Percentage Composition: C 75.00%; H 3.60%; O 21.41%

Physical Description: Yellow needles (EtOH)

Melting Point: Mp 227°

Aldrich: F155-7

Fluka: 46905

>>Derivative: Me ester

CAS Registry Number: 4269-19-6

Molecular Formula: C₁₅H₁₀O₃

Molecular Weight: 238.242

Accurate Mass: 238.062995

Percentage Composition: C 75.62%; H 4.23%; O 20.15%

Melting Point: Mp 132°

Rare Chemicals Library: S28904-3

>>Derivative: Chloride

CAS Registry Number: 7071-83-2

Molecular Formula: C₁₄H₇ClO₂

Molecular Weight: 242.661

Accurate Mass: 242.013457

Percentage Composition: C 69.30%; H 2.91%; Cl 14.61%; O 13.19%

Melting Point: Mp 139-141°

Aldrich: 24958-0

References:

Aldrich Library of FT-IR Spectra, 1st edn., 1985, **2**, 244D; 352D, (*ir*)

Aldrich Library of 13C and 1H FT NMR Spectra, 1992, **2**, 1175C, (*nmr*)

U.S. Pat., 1932, 1 868 531; *CA*, **26**, 5315, (*synth*)

Weisburger, E.K. *et al.*, *J.O.C.*, 1955, **20**, 1396-1401, (*synth*)

Kennard, C.H.L. *et al.*, *Aust. J. Chem.*, 1981, **34**, 1143-1146, (*cryst struct*)