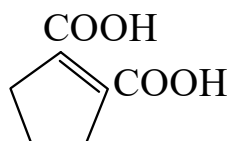




>>Entry Name: 1-Cyclopentene-1,2-dicarboxylic acid, 9CI



CAS Registry Number: 3128-15-2

Molecular Formula: C₇H₈O₄

Molecular Weight: 156.138

Accurate Mass: 156.04226

Percentage Composition: C 53.85%; H 5.16%; O 40.99%

Physical Description: Needles (H₂O)

Melting Point: Mp 178°

pKa Value: pK_{a1} 1.64; pK_{a2} 7.27 (25°)

Other Data: Distils without dec. on rapid heating

Rare Chemicals Library: S92672-8

>>Derivative: Di-Me ester

CAS Registry Number: 13368-79-1

Molecular Formula: C₉H₁₂O₄

Molecular Weight: 184.191

Accurate Mass: 184.07356

Percentage Composition: C 58.69%; H 6.57%; O 34.75%

Boiling Point: Bp₁₁ 120-125°

>>Derivative: Anhydride

Synonym(s): 5,6-Dihydro-1*H*-cyclopenta[*c*]furan-1,3(4*H*)-dione, 9CI. 3-Oxabicyclo[3.3.0]oct-1(5)-ene-2,4-dione

CAS Registry Number: 3205-94-5

Molecular Formula: C₇H₆O₃

Molecular Weight: 138.123

Accurate Mass: 138.031695

Percentage Composition: C 60.87%; H 4.38%; O 34.75%

Physical Description: Cryst. (EtOAc/hexane)

Melting Point: Mp 46-49°

Boiling Point: Bp₁₀ 133-135°

Refractive Index: n_D²⁰ 1.4978

Aldrich: 31835-3

Fluka: 29822

References:

Aldrich Library of 13C and 1H FT NMR Spectra, 1992, **1**, 1181C, (*nmr*)

Willstätter, R., *Ber.*, 1895, **28**, 660, (*synth*)

Stevens, H.C., *J.O.C.*, 1971, **36**, 2780, (*synth*)

Paquette, L.A. *et al.*, *J.A.C.S.*, 1974, **96**, 7474, (*anhydride, synth*)