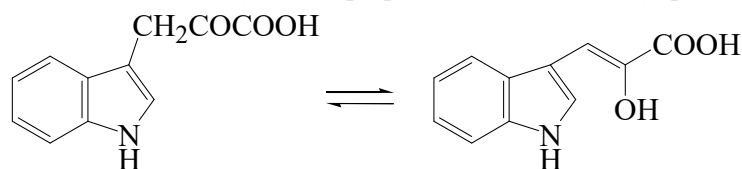




>>Entry Name: α -Oxo-1*H*-indole-3-propanoic acid, 9Cl

Synonym(s): 2-Hydroxy-3-(1*H*-indol-3-yl)-2-propenoic acid. 3-(3-Indolyl)-2-oxopropanoic acid. 3-(3-Indolyl)pyruvic acid



CAS Registry Number: 392-12-1

Extra CAS Registry Numbers(s): 144334-60-1

Molecular Formula: C₁₁H₉NO₃

Molecular Weight: 203.197

Accurate Mass: 203.058244

Percentage Composition: C 65.02%; H 4.46%; N 6.89%; O 23.62%

Biological Source: Prod. from tryptophan by microorganisms; poss. present in higher plants

Physical Description: Grey cryst. + 1AcOH (AcOH)

Melting Point: Mp 211°

Aldrich: I-556-7

Fluka: 57300

Sigma: I7017

>>Derivative: Oxime

Molecular Formula: C₁₁H₁₀N₂O₃

Molecular Weight: 218.212

Accurate Mass: 218.069143

Percentage Composition: C 60.55%; H 4.62%; N 12.84%; O 22.00%

Melting Point: Mp 175°

>>Derivative: *p*-Nitrophenylhydrazone

Melting Point: Mp 153-154°

References:

- Aldrich Library of FT-IR Spectra*, 1st edn., 1985, **2**, 669A, (*ir*)
Aldrich Library of 13C and 1H FT NMR Spectra, 1992, **3**, 140B, (*nmr*)
Gränacher, C. *et al.*, *Helv. Chim. Acta*, 1924, **7**, 575, (*synth*)
Kaper, J.M. *et al.*, *Arch. Biochem. Biophys.*, 1963, **103**, 475
Srivastava, B.I.S. *et al.*, *Plant Physiol.*, 1964, **39**, 381; *CA*, **61**, 16442
Matchett, W.H., *Biochim. Biophys. Acta*, 1965, **107**, 222
Havaaldsen, R. *et al.*, *Acta Chem. Scand.*, 1967, **21**, 1095, (*synth*)
Nazario, J. *et al.*, *Arch. Biochem. Biophys.*, 1968, **123**, 457-461, (*tautom, ir*)
Okabe, N. *et al.*, *Acta Cryst. C*, 1998, **54**, 1330-1331, (*cryst struct*)