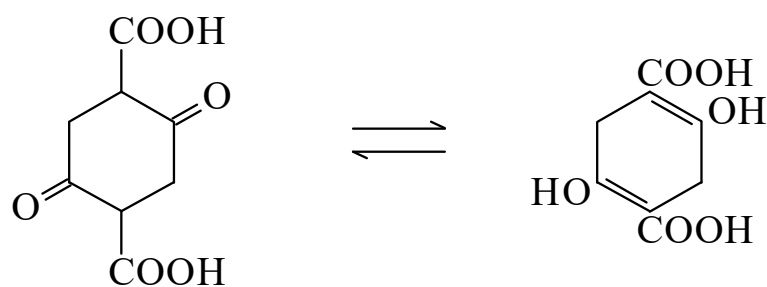




>>Entry Name: 2,5-Dioxo-1,4-cyclohexanedicarboxylic acid

Synonym(s): Succinosuccinic acid. Succinylsuccinic acid. 2,5-Dihydroxy-1,4-cyclohexadiene-1,4-dicarboxylic acid



CAS Registry Number: 490-93-7

Related CAS Registry Numbers(s): 16877-79-5 27712-87-4

Molecular Formula: $C_8H_8O_6$

Molecular Weight: 200.148

Accurate Mass: 200.03209

Percentage Composition: C 48.01%; H 4.03%; O 47.96%

General Statement: Tautomeric with hydrogen-bonded dienol form, therefore stereoisomers have not been distinguished

Physical Description: Needles

Solubility: Spar. sol. H_2O

>>Derivative: Di-Me ester

CAS Registry Number: 6289-46-9

Molecular Formula: $C_{10}H_{12}O_6$

Molecular Weight: 228.201

Accurate Mass: 228.06339

Percentage Composition: C 52.63%; H 5.30%; O 42.07%

Physical Description: Needles (EtOH)

Melting Point: Mp 153°

>>Derivative: Di-Et ester

CAS Registry Number: 787-07-5

Molecular Formula: $C_{12}H_{16}O_6$

Molecular Weight: 256.255

Accurate Mass: 256.09469

Percentage Composition: C 56.25%; H 6.29%; O 37.46%

Melting Point: Mp 126.5-128.5°

Other Data: Exists as the bis-enol form

Aldrich: 12612-8

Rare Chemicals Library: S32584-8

References:

Aldrich Library of ^{13}C and 1H FT NMR Spectra, 1992, **1**, 1115B, (*nmr*)

Aldrich Library of FT-IR Spectra, 1st edn., 1985, **1**, 693C, (*ir*)

Liebermann, H., *Annalen*, 1914, **404**, 287, (*synth*)

Hantzsch, A., *Ber.*, 1915, **48**, 772, (*synth*)

Sinnreich, J. *et al.*, *Helv. Chim. Acta*, 1973, **56**, 2760, (*synth*)

Mez, H.-C. *et al.*, *Helv. Chim. Acta*, 1973, **56**, 2766, (*cryst struct, ester*)

Org. Synth., Coll. Vol., 5, 1973, 288, (*synth*)

Wudl, F. *et al.*, *J.A.C.S.*, 1987, **109**, 3677, (*synth*)