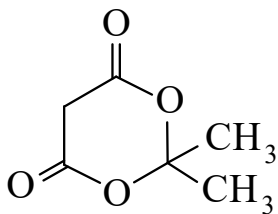




>>Entry Name: **2,2-Dimethyl-1,3-dioxane-4,6-dione**, 9CI

Synonym(s): Malonic acid cyclic isopropylidene ester, 8CI. Isopropylidene malonate. Meldrum's acid



CAS Registry Number: 2033-24-1

Molecular Formula: C₆H₈O₄

Molecular Weight: 144.127

Accurate Mass: 144.04226

Percentage Composition: C 50.00%; H 5.59%; O 44.40%

General Statement: Exists overwhelmingly as diketo tautomer

Use/Importance: Convenient reagent for the prep. of α -substituted β -diketones and β -ketoesters. Used in stereoselective intramolecular Diels-Alder reactions

Physical Description: Cryst. (Me₂CO aq.)

Melting Point: Mp 94-95 dec.°

pKa Value: pK_a 4.83

Other Data: V. high acidity attributed to large stereoelectronic effect

Aldrich: 21014-5

Fluka: 63395

Sigma: D2151

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