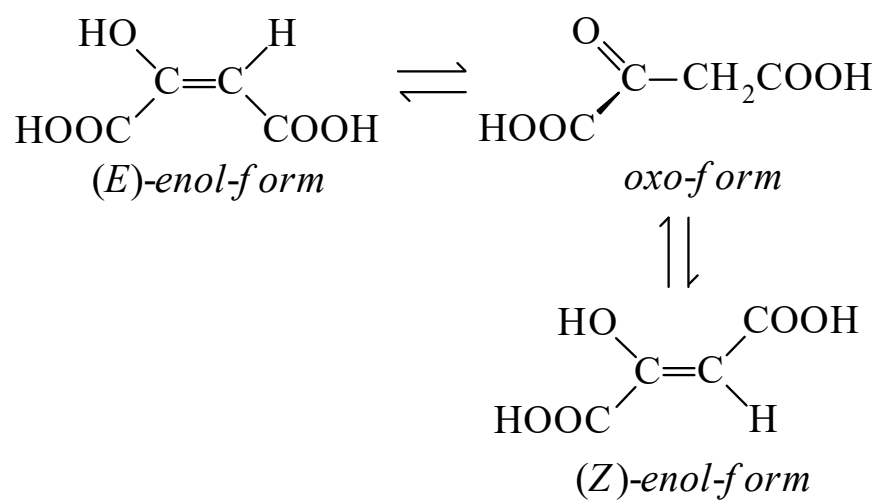




>>Entry Name: Oxobutanedioic acid, 9CI

Synonym(s): Oxalacetic acid, 8CI. Ketosuccinic acid. Hydroxybutenedioic acid. Oxaloacetic acid. Hydroxyfumaric acid



CAS Registry Number: 328-42-7

Related CAS Registry Numbers(s): 24567-12-2 63277-17-8

Molecular Formula: C₄H₄O₅

Molecular Weight: 132.073

Accurate Mass: 132.005875

Percentage Composition: C 36.38%; H 3.05%; O 60.57%

Biological Source: Found in *Aspergillus* spp., *Bauhinia* spp., *Albizia* spp., *Phycomyces blakesleeana*; widely distributed as intermed. in citric acid photochemical cycle

Use/Importance: Possesses ulcer-inhibiting props. Enzyme inhibitor

pKa Value: pK_{a1} 2.22; pK_{a2} 3.89; pK_{a3} 13 (25°, 0.1M KCl)

Aldrich: 17125-5

Fluka: 75660

Sigma: O4126

>>Derivative: Di-NH₄ salt

Physical Description: Solid

Melting Point: Mp 75-77°

>>Derivative: Di-Me ester

CAS Registry Number: 25007-54-9

Molecular Formula: C₆H₈O₅

Molecular Weight: 160.126

Accurate Mass: 160.037175

Percentage Composition: C 45.01%; H 5.04%; O 49.96%

Physical Description: Needles (petrol)

Melting Point: Mp 82° (74°)

>>Derivative: Di-Et ester

CAS Registry Number: 108-56-5

Molecular Formula: C₈H₁₂O₅

Molecular Weight: 188.18

Accurate Mass: 188.068475

Percentage Composition: C 51.06%; H 6.43%; O 42.51%

Physical Description: Oil

Boiling Point: Bp₁ 85-87°

>>Derivative: Diamide

Molecular Formula: C₄H₆N₂O₃

Molecular Weight: 130.103

Accurate Mass: 130.037843

Percentage Composition: C 36.93%; H 4.65%; N 21.53%; O 36.89%

Physical Description: Needles

Melting Point: Mp 180 dec.°