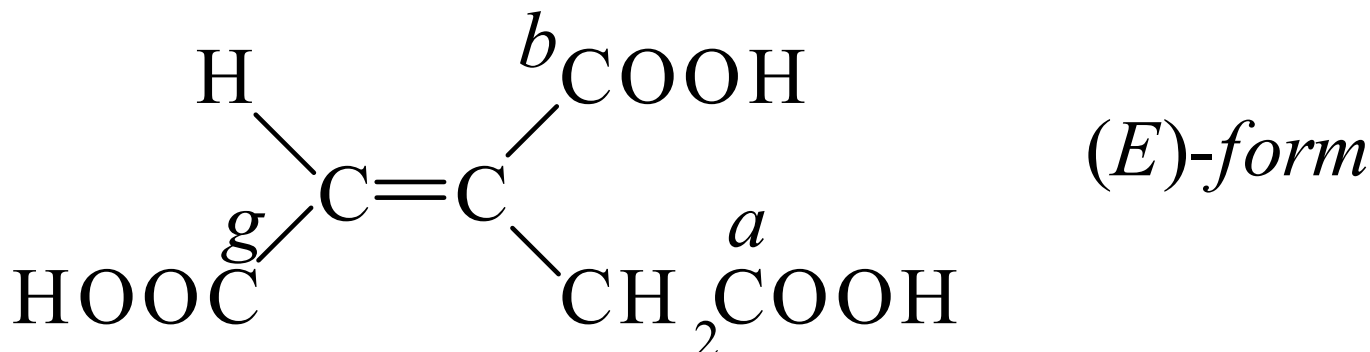




>>Entry Name: Aconitic acid

ENTRY UNDER REVIEW

Synonym(s): 1-Propene-1,2,3-tricarboxylic acid, 9CI. Achilleaic acid. Citridinic acid. Equisetic acid. Pyrocitric acid. 3-Carboxy-2-pentenedioic acid. FEMA 2010



CAS Registry Number: 499-12-7

Related CAS Registry Numbers(s): 20820-77-3 65629-33-6

Molecular Formula: C₆H₆O₆

Molecular Weight: 174.11

Accurate Mass: 174.01644

Percentage Composition: C 41.39%; H 3.47%; O 55.14%

Rare Chemicals Library: S43785-9

>>Variant: (*E*)-form

CAS Registry Number: 4023-65-8

Molecular Formula: C₆H₆O₆

Molecular Weight: 174.11

Accurate Mass: 174.01644

Percentage Composition: C 41.39%; H 3.47%; O 55.14%

Biological Source: Isol. from *Asarum europaeum*, from cane-sugar molasses and other plant sources. Present in large amounts in *Aconitum napellus* (monkshood)

Use/Importance: Used to prod. unsatd. polyesters. Reagent used for fluorimetric anal. of tertiary amines

Physical Description: Leaflets (H₂O)

Melting Point: Mp 194-195 dec.°

Solubility: Sol. H₂O, EtOH

pKa Value: pK_{a1} 2.8; pK_{a2} 4.46 (25°)

Other Data: Decarboxylates at Mp to Methylenebutanedioic acid [HJM97-X](#). Mp variable with rate of htg. Several copolymers with alkenes have been synth.