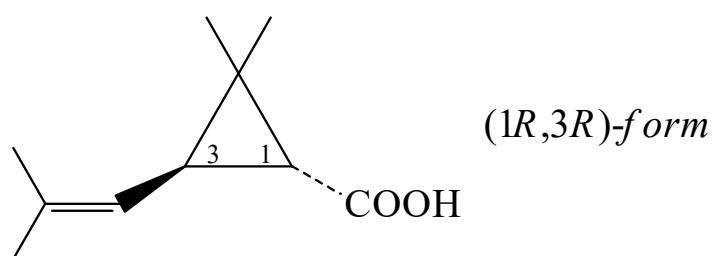




>>Entry Name: Chrysanthemic acid

Synonym(s): 2,2-Dimethyl-3-(2-methyl-1-propenyl)cyclopropanecarboxylic acid, 9Cl. 3-Isobutenyl-2,2-dimethyl-1-cyclopropanecarboxylic acid. Chrysanthemummonocarboxylic acid. Chrysanthemumic acid



CAS Registry Number: 10453-89-1

Related CAS Registry Numbers(s): 97-41-6

Molecular Formula: C₁₀H₁₆O₂

Molecular Weight: 168.235

Accurate Mass: 168.11503

Percentage Composition: C 71.39%; H 9.59%; O 19.02%

Use/Importance: Esters of both *cis*- and *trans*-forms are widely used in commercial insecticide preparations

Hazard & Toxicity: LD₅₀ (rat, orl) 2500 mg/kg

Sigma: C0154

>>Variant: (1*R*,3*R*)-form

Synonym(s): (+)-*trans*-form

CAS Registry Number: 4638-92-0

Molecular Formula: C₁₀H₁₆O₂

Molecular Weight: 168.235

Accurate Mass: 168.11503

Percentage Composition: C 71.39%; H 9.59%; O 19.02%

Biological Source: Occurs as pyrethrolone ester as one of the pyrethrins

Physical Description: Cryst. or liq.

Melting Point: Mp 17-21°

Optical Rotation: [α]_D²⁰ +14.2 (EtOH)

>>Derivative: Chloride

CAS Registry Number: 4489-14-9

Extra CAS Registry Numbers(s): 14297-81-5

Molecular Formula: C₁₀H₁₅ClO

Molecular Weight: 186.681

Accurate Mass: 186.081142

Percentage Composition: C 64.34%; H 8.10%; Cl 18.99%; O 8.57%

Use/Importance: Resolving agent for alcohols and amines

>>Variant: (1*S*,3*S*)-form

Synonym(s): (–)-*trans*-form

CAS Registry Number: 2259-14-5

Molecular Formula: C₁₀H₁₆O₂

Molecular Weight: 168.235

Accurate Mass: 168.11503

Percentage Composition: C 71.39%; H 9.59%; O 19.02%

Physical Description: Cryst.

Melting Point: Mp 17-21°

Optical Rotation: [α]_D –14 (EtOH)