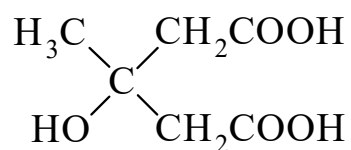




>>Entry Name: 3-Hydroxy-3-methylpentanedioic acid, 9CI

Synonym(s): 3-Hydroxy-3-methylglutaric acid, 8CI. Dicrotallic acid. **Meglutol**, INN, USAN. Medroglutaric acid. Lipoglutaren. Lipomen. Mevalon. CB 337. HMG



CAS Registry Number: 503-49-1

Molecular Formula: C<sub>6</sub>H<sub>10</sub>O<sub>5</sub>

Molecular Weight: 162.142

Accurate Mass: 162.052825

Percentage Composition: C 44.45%; H 6.22%; O 49.34%

Biological Source: Occurs free in *Crotalaria dura* and *Crotalaria globifera* and bound in Dicrotaline

Use/Importance: Biosynth. precursor of isoprenoids. Antihyperlipidaemic agent. Found in some cases of malonic aciduria

Physical Description: Cryst. (Et<sub>2</sub>O/petrol)

Development Status: Launched 1983

Melting Point: Mp 109°

Calculated Log P Data: Log P -1.01 (calc)

Hazard & Toxicity: LD<sub>50</sub> (mus, ipr) 3230 mg/kg

Aldrich: 21985-1

Fluka: 55695

Sigma: H4392

>>Derivative: Anhydride

Synonym(s): Dihydro-4-hydroxy-4-methyl-2H-pyran-2,6(3H)-dione, 9CI

CAS Registry Number: 34695-32-4

Molecular Formula: C<sub>6</sub>H<sub>8</sub>O<sub>4</sub>

Molecular Weight: 144.127

Accurate Mass: 144.04226

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

Physical Description: Needles (Et<sub>2</sub>O/petrol)

Melting Point: Mp 102-103°

>>Derivative: Anhydride, Ac

Molecular Formula: C<sub>8</sub>H<sub>10</sub>O<sub>5</sub>

Molecular Weight: 186.164

Accurate Mass: 186.052825

Percentage Composition: C 51.61%; H 5.41%; O 42.97%

Physical Description: Prisms (Et<sub>2</sub>O)

Melting Point: Mp 85°

>>Derivative: Amide-nitrile

CAS Registry Number: 72060-90-3

Molecular Formula: C<sub>6</sub>H<sub>10</sub>N<sub>2</sub>O<sub>2</sub>

Molecular Weight: 142.157

Accurate Mass: 142.074228

Percentage Composition: C 50.69%; H 7.09%; N 19.71%; O 22.51%

Physical Description: Cryst. (Et<sub>2</sub>O)

Melting Point: Mp 72-73°

>>Derivative: Diamide

CAS Registry Number: 72060-91-4

Molecular Formula: C<sub>6</sub>H<sub>12</sub>N<sub>2</sub>O<sub>3</sub>

Molecular Weight: 160.172

Accurate Mass: 160.084793

Percentage Composition: C 44.99%; H 7.55%; N 17.49%; O 29.97%

Melting Point: Mp 134-135°