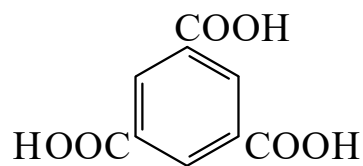




>>Entry Name: 1,3,5-Benzenetricarboxylic acid, 9CI

Synonym(s): Trimesic acid. 5-Carboxyisophthalic acid



CAS Registry Number: 554-95-0

Molecular Formula: C₉H₆O₆

Molecular Weight: 210.143

Accurate Mass: 210.01644

Percentage Composition: C 51.44%; H 2.88%; O 45.68%

Biological Source: Isol. from leaves of *Talauma mexicana*. Manuf. by oxidn. of mesitylene

Use/Importance: Used as a 2% aq. soln. for gravimetric detn. of Hf, Th, Zr. Cross-linking agent. Polyester resin comonomer

Physical Description: Needles or prisms (H₂O)

Melting Point: Mp 380°

Solubility: Sl. sol. H₂O

Aldrich: 41227-9

Fluka: 92130

Sigma: T0759

>>Derivative: Tri-Na salt

CAS Registry Number: 17274-08-7

Solubility: Sol. H₂O, EtOH

>>Derivative: Mono-Me ester

Molecular Formula: C₁₀H₈O₆

Molecular Weight: 224.17

Accurate Mass: 224.03209

Percentage Composition: C 53.58%; H 3.60%; O 42.82%

Physical Description: Cryst. + H₂O (H₂O)

Melting Point: Mp 205-208° (anhyd.)

>>Derivative: Tri-Me ester

CAS Registry Number: 2672-58-4

Molecular Formula: C₁₂H₁₂O₆

Molecular Weight: 252.223

Accurate Mass: 252.06339

Percentage Composition: C 57.14%; H 4.80%; O 38.06%

Physical Description: Needles

Melting Point: Mp 144°

Aldrich: 11598-3

Rare Chemicals Library: S26510-1

>>Derivative: Tri-Et ester

CAS Registry Number: 4105-92-4

Molecular Formula: C₁₅H₁₈O₆

Molecular Weight: 294.304

Accurate Mass: 294.11034

Percentage Composition: C 61.22%; H 6.16%; O 32.62%

Physical Description: Prisms or needles (EtOH)

Melting Point: Mp 133.5-134.5°

Aldrich: 44469-3