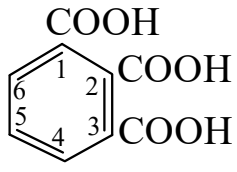
>>**Entry Name: 1,2,3-Benzenetricarboxylic acid,** 9CI
Synonym(s): Hemimellitic acid



CAS Registry Number: 569-51-7

Molecular Formula: $C_9H_6O_6$
Molecular Weight: 210.143
Accurate Mass: 210.01644
Percentage Composition: C 51.44%; H 2.88%; O 45.68%
Physical Description: Needles (H_2O)
Melting Point: Mp 194-197 dec.°
Density: d^{20} 1.546
pKa Value: pK_{a1} 2.62; pK_{a2} 3.82; pK_{a3} 5.51 (25°, 0.1*M* KCl)

Fluka: 51520

>>**Derivative:** Monohydrate

CAS Registry Number: 36362-97-7
Physical Description: Needles
Melting Point: Mp 223-224°
Aldrich: B420-1
Sigma: B1009

>>**Derivative:** Dihydrate

Physical Description: Plates

>>**Derivative:** Tri-Na salt

CAS Registry Number: 55680-81-4

Use/Importance: Used for fluorescence detn. of Cu, V

>>**Derivative:** 2-Me ester

CAS Registry Number: 31158-53-9
Molecular Formula: $C_{10}H_8O_6$
Molecular Weight: 224.17
Accurate Mass: 224.03209
Percentage Composition: C 53.58%; H 3.60%; O 42.82%
Melting Point: Mp 203-205°

>>**Derivative:** 1,3-Di-Me ester

Molecular Formula: $C_{11}H_{10}O_6$
Molecular Weight: 238.196
Accurate Mass: 238.04774
Percentage Composition: C 55.47%; H 4.23%; O 40.30%
Melting Point: Mp 148-150°

>>**Derivative:** Tri-Me ester

CAS Registry Number: 2672-57-3
Molecular Formula: $C_{12}H_{12}O_6$
Molecular Weight: 252.223
Accurate Mass: 252.06339
Percentage Composition: C 57.14%; H 4.80%; O 38.06%
Physical Description: Plates (MeOH)
Melting Point: Mp 102°

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