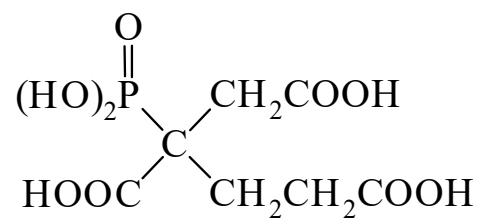




>>Entry Name: 2-Phosphono-1,2,4-butanetricarboxylic acid, 9CI



CAS Registry Number: 37971-36-1

Related CAS Registry Numbers(s): 37971-35-0 91749-33-6

Molecular Formula: C₇H₁₁O₉P

Molecular Weight: 270.132

Accurate Mass: 270.014072

Percentage Composition: C 31.12%; H 4.10%; O 53.31%; P 11.47%

>>Variant: (±)-form

Molecular Formula: C₇H₁₁O₉P

Molecular Weight: 270.132

Accurate Mass: 270.014072

Percentage Composition: C 31.12%; H 4.10%; O 53.31%; P 11.47%

Use/Importance: Complexing agent. Component of dentifrices

>>Derivative: Penta-Me ester

Synonym(s): Trimethyl (2-dimethoxyphosphinyl)-1,2,4-butanetricoate. Pentamethyl 2-phosphono-1,2,4-butanetricarboxylate

Molecular Formula: C₁₂H₂₁O₉P

Molecular Weight: 340.266

Accurate Mass: 340.092322

Percentage Composition: C 42.36%; H 6.22%; O 42.32%; P 9.10%

Physical Description: Oil

Boiling Point: Bp₁ 175-183°

References:

Ger. Pat., 1972, 2 061 838; *CA*, **77**, 114565, (*synth*)

U.S. Pat., 1981, 4 348 381; *CA*, **97**, 188116, (*use*)