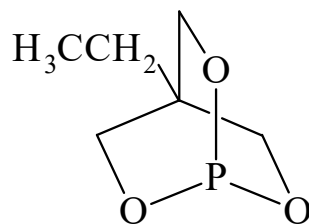




>>Entry Name: 4-Ethyl-2,6,7-trioxa-1-phosphabicyclo[2.2.2]octane, 9CI
Synonym(s): Trimethylolpropane phosphite. Ethyl bicyclic phosphite. ETPB



CAS Registry Number: 824-11-3

Molecular Formula: C₆H₁₁O₃P
Molecular Weight: 162.125
Accurate Mass: 162.044582
Percentage Composition: C 44.45%; H 6.84%; O 29.61%; P 19.10%
Physical Description: Cryst.
Melting Point: Mp 56°
Boiling Point: Bp₈ 100°. Bp_{0.1} 86° subl.
Hazard & Toxicity: LD₅₀ (rat, orl) *ca.* 8 mg/kg; LD₅₀ (rat, skn) 929 mg/kg

Fluka: 4996

>>Derivative: Oxide
Synonym(s): Ethyl bicyclic phosphate. Trimethylolpropane phosphate

CAS Registry Number: 1005-93-2

Molecular Formula: C₆H₁₁O₄P
Molecular Weight: 178.124
Accurate Mass: 178.039497
Percentage Composition: C 40.46%; H 6.22%; O 35.93%; P 17.39%
Physical Description: Cryst. (H₂O or Me₂CO)
Melting Point: Mp 207-208°
Hazard & Toxicity: LD₅₀ (rat, orl) *ca.* 3 mg/kg; LD₅₀ (rat, skn) 50 mg/kg

>>Derivative: Sulfide
Synonym(s): Ethyl bicyclic thiophosphate. Trimethylolpropane thiophosphate

CAS Registry Number: 935-52-4

Molecular Formula: C₆H₁₁O₃PS
Molecular Weight: 194.191
Accurate Mass: 194.016652
Percentage Composition: C 37.11%; H 5.71%; O 24.72%; P 15.95%; S 16.51%
Physical Description: Cryst. (EtOH)
Melting Point: Mp 176-178°
Hazard & Toxicity: LD₅₀ (mus, ipr) 1.1 mg/kg

>>Derivative: Selenide
Synonym(s): Ethyl bicyclic selenophosphate. Trimethylolpropane selenophosphate

CAS Registry Number: 3883-97-4

Molecular Formula: C₆H₁₁O₃PSe
Molecular Weight: 241.085
Accurate Mass: 241.961102
Percentage Composition: C 29.89%; H 4.60%; O 19.91%; P 12.85%; Se 32.75%
Physical Description: Cryst. (2-methoxyethanol)
Melting Point: Mp 207-210°

References: