



>>Entry Name: (2-Hydroxyethyl)phosphonic acid, 9Cl

Synonym(s): 2-Phosphonoethanol

CAS Registry Number: 22987-21-9

$\text{HOCH}_2\text{CH}_2\text{P}(\text{O})(\text{OH})_2$

Molecular Formula: $\text{C}_2\text{H}_7\text{O}_4\text{P}$

Molecular Weight: 126.049

Accurate Mass: 126.008197

Percentage Composition: C 19.06%; H 5.60%; O 50.77%; P 24.57%

Source/Synthesis: Major metab. of Ethepon in *Hevea brasiliensis*

Physical Description: Syrup

>>Derivative: Monoanilinium salt

CAS Registry Number: 75502-79-3

Physical Description: Solid

Melting Point: Mp 104-109°

>>Derivative: Cyclohexylammonium salt (2:3)

CAS Registry Number: 132155-50-1

Physical Description: Cryst.

Melting Point: Mp 128-133°

>>Derivative: Mono(dicyclohexylammonium) salt

CAS Registry Number: 75502-80-6

Physical Description: Solid

Melting Point: Mp 165-169°

>>Derivative: Di-Me ester

Synonym(s): Dimethyl (2-hydroxyethyl)phosphonate

CAS Registry Number: 54731-72-5

Molecular Formula: $\text{C}_4\text{H}_{11}\text{O}_4\text{P}$

Molecular Weight: 154.102

Accurate Mass: 154.039497

Percentage Composition: C 31.18%; H 7.19%; O 41.53%; P 20.10%

Physical Description: Liq.

Boiling Point: Bp_{1.5} 98-101° (lit. gives a pressure range)

Density: d_4^{20} 1.23

Refractive Index: n_D^{20} 1.4439

>>Derivative: Di-Et ester

Synonym(s): Diethyl (2-hydroxyethyl)phosphonate

CAS Registry Number: 39997-40-5

Molecular Formula: $\text{C}_6\text{H}_{15}\text{O}_4\text{P}$

Molecular Weight: 182.156

Accurate Mass: 182.070797

Percentage Composition: C 39.56%; H 8.30%; O 35.13%; P 17.00%

Physical Description: Liq.

Boiling Point: Bp₂ 112-115°

Density: d_4^{20} 1.12

Refractive Index: n_D^{20} 1.4372