



>>Entry Name: 2-Propenylphosphonic acid, 9Cl

Synonym(s): Allylphosphonic acid, 8Cl

CAS Registry Number: 6833-67-6

$\text{H}_2\text{C}=\text{CHCH}_2\text{P}(\text{O})(\text{OH})_2$

Molecular Formula: $\text{C}_3\text{H}_7\text{O}_3\text{P}$

Molecular Weight: 122.06

Accurate Mass: 122.013282

Percentage Composition: C 29.52%; H 5.78%; O 39.32%; P 25.38%

Physical Description: Deliquescent cryst. (after prolonged drying)

Melting Point: Mp 47-50°

>>Derivative: Mono(cyclohexylammonium) salt

Physical Description: Needles (EtOH aq.)

Melting Point: Mp 236 dec.°

>>Derivative: Di-Me ester

Synonym(s): Dimethyl 2-propenylphosphonate. Dimethyl allylphosphonate

CAS Registry Number: 757-54-0

Molecular Formula: $\text{C}_5\text{H}_{11}\text{O}_3\text{P}$

Molecular Weight: 150.114

Accurate Mass: 150.044582

Percentage Composition: C 40.01%; H 7.39%; O 31.97%; P 20.63%

Physical Description: Liq.

Boiling Point: Bp₁₂ 85-86°. Bp₁ 44-46°

Refractive Index: n_D^{20} 1.4340

>>Derivative: Di-Et ester

Synonym(s): Diethyl 2-propenylphosphonate. Diethyl allylphosphonate

CAS Registry Number: 1067-87-4

Molecular Formula: $\text{C}_7\text{H}_{15}\text{O}_3\text{P}$

Molecular Weight: 178.167

Accurate Mass: 178.075882

Percentage Composition: C 47.19%; H 8.49%; O 26.94%; P 17.38%

Use/Importance: Fungicide

Physical Description: Liq.

Boiling Point: Bp₁₆ 97-98°. Bp₂ 78-79°

Density: d_4^{20} 1.034

Refractive Index: n_D^{20} 1.4313

Other Data: Q/e values for copolym., Q 0.557, e 0.128

Rare Chemicals Library: S95012-2

>>Derivative: Dipropyl ester

Synonym(s): Dipropyl 2-propenylphosphonate

CAS Registry Number: 1473-63-8

Molecular Formula: $\text{C}_9\text{H}_{19}\text{O}_3\text{P}$

Molecular Weight: 206.221

Accurate Mass: 206.107182

Percentage Composition: C 52.42%; H 9.29%; O 23.28%; P 15.02%

Physical Description: Liq.

Boiling Point: Bp₂ 76-80°

Refractive Index: n_D^{20} 1.4318

>>Derivative: Diisopropyl ester

Synonym(s): Diisopropyl allylphosphonate. Bis(1-methylethyl) 2-propenylphosphonate

CAS Registry Number: 1067-70-5

Physical Description: Liq.

Boiling Point: Bp₁₉ 106-108°. Bp_{0.25} 52°

Refractive Index: n