



Synonym(s): Diethyl benzoylphosphonate

CAS Registry Number: 3277-27-8

Molecular Formula: C₁₁H₁₅O₄P

Molecular Weight: 242.211

Accurate Mass: 242.070797

Percentage Composition: C 54.55%; H 6.24%; O 26.42%; P 12.79%

Physical Description: Liq.

Boiling Point: Bp₃ 141-147°. Bp_{1.2} 158-160°

Other Data: Reaction with CH₂N₂ → diethyl phenacylphosphonate

Aldrich: 44879-6

>>**Derivative:** Di-Et ester, 2,4-dinitrophenylhydrazone

Melting Point: Mp 171-172°

>>**Derivative:** Diisopropyl ester

Synonym(s): Diisopropyl benzoylphosphonate

CAS Registry Number: 22950-57-8

Molecular Formula: C₁₃H₁₉O₄P

Molecular Weight: 270.264

Accurate Mass: 270.102097

Percentage Composition: C 57.77%; H 7.09%; O 23.68%; P 11.46%

Physical Description: Oil

Boiling Point: Bp_{0.3} 117-120°

>>**Derivative:** Dibenzyl ester

Synonym(s): Dibenzyl benzoylphosphonate

CAS Registry Number: 134420-58-9

Molecular Formula: C₂₁H₁₉O₄P

Molecular Weight: 366.352

Accurate Mass: 366.102097

Percentage Composition: C 68.85%; H 5.23%; O 17.47%; P 8.45%

Physical Description: Oil

>>**Derivative:** Bis(trimethylsilyl) ester

Synonym(s): Bis(trimethylsilyl) benzoylphosphonate

CAS Registry Number: 33876-85-6

Molecular Formula: C₁₃H₂₃O₄PSi₂

Molecular Weight: 330.467

Accurate Mass: 330.087251

Percentage Composition: C 47.25%; H 7.01%; O 19.37%; P 9.37%; Si 17.00%

Physical Description: Liq.

Boiling Point: Bp₃ 140-145°

>>**Derivative:** Dichloride

Molecular Formula: C₇H₅Cl₂O₂P

Molecular Weight: 222.994

Accurate Mass: 221.940421

Percentage Composition: C 37.70%; H 2.26%; Cl 31.80%; O 14.35%; P 13.89%

Physical Description: Props. not reported

>>**Derivative:** Diamide

see *P*-Benzoylphosphonic diamide, [DPQ04-L](#)

References: