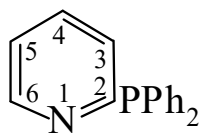




>>Entry Name: 2-(Diphenylphosphino)pyridine

Synonym(s): Diphenyl-2-pyridylphosphine



CAS Registry Number: 37943-90-1

Type of Compound Code(s): AC0300

Molecular Formula: C₁₇H₁₄NP

Molecular Weight: 263.278

Accurate Mass: 263.086386

Percentage Composition: C 77.56%; H 5.36%; N 5.32%; P 11.76%

Use/Importance: Ligand for Co, Cu, Au, Ni, Pd and Ru

Physical Description: Cryst. (MeOH aq. or petrol)

Melting Point: Mp 84-85°

Boiling Point: Bp_{0.05} 163°

Aldrich: 39296-0

>>Derivative: Methiodide

Type of Compound Code(s): AC0600

Molecular Formula: C₁₈H₁₇INP

Molecular Weight: 405.217

Accurate Mass: 405.014334

Percentage Composition: C 53.35%; H 4.23%; I 31.32%; N 3.46%; P 7.64%

Physical Description: Cryst. (MeOH/Et₂O)

Melting Point: Mp 141-142°. Mp 157.5-158.5 dec.°

>>Derivative: P-Oxide

Synonym(s): 2-(Diphenylphosphinyl)pyridine

CAS Registry Number: 64741-30-6

Type of Compound Code(s): AC0310

Molecular Formula: C₁₇H₁₄NOP

Molecular Weight: 279.277

Accurate Mass: 279.081301

Percentage Composition: C 73.11%; H 5.05%; N 5.02%; O 5.73%; P 11.09%

Physical Description: Cryst. (cyclohexane)

Melting Point: Mp 109-110°

>>Derivative: Sulfide

Synonym(s): 2-(Diphenylphosphinothioyl)pyridine

Type of Compound Code(s): AC0330

Molecular Formula: C₁₇H₁₄NPS

Molecular Weight: 295.344

Accurate Mass: 295.058456

Percentage Composition: C 69.14%; H 4.78%; N 4.74%; P 10.49%; S 10.86%

Physical Description: Cryst. (EtOH)

Melting Point: Mp 119°

>>Derivative: Sulfide; methiodide

Physical Description: Yellow cryst. (EtOH)

Melting Point: Mp 167.5-168.5°

>>Derivative: N-Oxide

CAS Registry Number: 107473-49-4

Type of Compound Code(s): AC0300

Molecular Formula: C₁₇H₁₄NOP

Molecular Weight: 279.277

Accurate Mass: 279.081301

Percentage Composition: C 73.11%; H 5.05%; N 5.02%; O 5.73%; P 11.09%

Physical Description: Pale yellow cryst.

Melting Point: Mp 144°