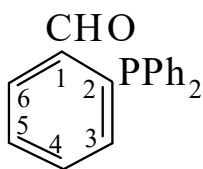




>>Entry Name: 2-(Diphenylphosphino)benzaldehyde, 9CI



CAS Registry Number: 50777-76-9
Type of Compound Code(s): AC0300

Molecular Formula: C₁₉H₁₅OP
Molecular Weight: 290.301
Accurate Mass: 290.086052
Percentage Composition: C 78.61%; H 5.21%; O 5.51%; P 10.67%
Use/Importance: Ligand for metals of Groups VIIB and VIII
Physical Description: Air-stable yellow cryst. (MeOH or MeOH/CH₂Cl₂)
Melting Point: Mp 116° (118-119°)

Aldrich: 32620-8

>>**Derivative:** Ethylene acetal
Synonym(s): 2-[2-(Diphenylphosphino)phenyl]-1,3-dioxolane

Type of Compound Code(s): AC0300
Molecular Formula: C₂₁H₁₉O₂P
Molecular Weight: 334.354
Accurate Mass: 334.112267
Percentage Composition: C 75.44%; H 5.73%; O 9.57%; P 9.26%
Physical Description: Cryst. (EtOH aq.)

>>**Derivative:** Oxide
Synonym(s): 2-(Diphenylphosphinyl)benzaldehyde

CAS Registry Number: 50777-77-0
Type of Compound Code(s): AC0310
Molecular Formula: C₁₉H₁₅O₂P
Molecular Weight: 306.3
Accurate Mass: 306.080967
Percentage Composition: C 74.51%; H 4.94%; O 10.45%; P 10.11%
Physical Description: Cryst. (C₆H₆/pentane)
Melting Point: Mp 120-121°

>>**Derivative:** *O,O*-Ethylene acetal, oxide
Synonym(s): 2-[2-(Diphenylphosphinyl)phenyl]-1,3-dioxolane

Type of Compound Code(s): AC0310
Molecular Formula: C₂₁H₁₉O₃P
Molecular Weight: 350.353
Accurate Mass: 350.107182
Percentage Composition: C 71.99%; H 5.47%; O 13.70%; P 8.84%
Physical Description: Cryst. (C₆H₆)
Melting Point: Mp 160°

>>**Derivative:** Sulfide
Synonym(s): 2-(Diphenylphosphinothioyl)benzaldehyde

CAS Registry Number: 50777-78-1
Type of Compound Code(s): AC0330
Molecular Formula: C₁₉H₁₅OPS
Molecular Weight: 322.367
Accurate Mass: 322.058122
Percentage Composition: C 70.79%; H 4.69%; O 4.96%; P 9.61%; S 9.95%
Physical Description: Cryst. (MeOH)
Melting Point: Mp 131-133°