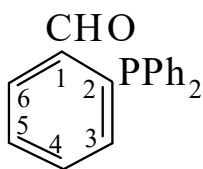




>>Entry Name: 2-(Diphenylphosphino)benzaldehyde, 9CI



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°