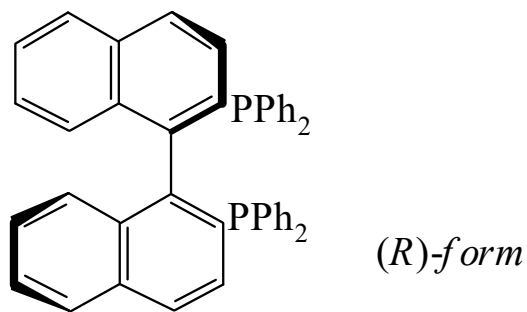




>>Entry Name: 2,2'-Bis(diphenylphosphino)-1,1'-binaphthyl

Synonym(s): [1,1'-Binaphthalene]-2,2'-diylbis[diphenylphosphine], 9Cl. Binap



CAS Registry Number: 98327-87-8

Molecular Formula: $C_{44}H_{32}P_2$

Molecular Weight: 622.684

Accurate Mass: 622.197924

Percentage Composition: C 84.87%; H 5.18%; P 9.95%

Use/Importance: Ligand for Rh and Pd, important in asymmetric hydrogenations

>>Variant: (R)-form

CAS Registry Number: 76189-55-4

Molecular Formula: $C_{44}H_{32}P_2$

Molecular Weight: 622.684

Accurate Mass: 622.197924

Percentage Composition: C 84.87%; H 5.18%; P 9.95%

Melting Point: Mp 240-241°

Optical Rotation: $[\alpha]_D^{25} +229$ (c, 0.32 in C_6H_6)

Aldrich: 29581-7

Fluka: 14797

>>Derivative: Dioxide

CAS Registry Number: 94041-16-4

Molecular Formula: $C_{44}H_{32}O_2P_2$

Molecular Weight: 654.683

Accurate Mass: 654.187754

Percentage Composition: C 80.72%; H 4.93%; O 4.89%; P 9.46%

Physical Description: Solid

Melting Point: Mp 262-263°

Optical Rotation: $[\alpha]_D^{24} +399$ (c, 0.5 in C_6H_6)

>>Variant: (S)-form

CAS Registry Number: 76189-56-5

Molecular Formula: $C_{44}H_{32}P_2$

Molecular Weight: 622.684

Accurate Mass: 622.197924

Percentage Composition: C 84.87%; H 5.18%; P 9.95%

Melting Point: Mp 241-242°

Optical Rotation: $[\alpha]_D^{25} -229$ (c, 0.31 in C_6H_6)

Aldrich: 29582-5

Fluka: 14798

>>Derivative: Dioxide

CAS Registry Number: 94041-18-6

Physical Description: Solid

Melting Point: Mp 261-262°

Optical Rotation: $[\alpha]_D^{24} -396$ (c, 0.47 in C_6H_6)