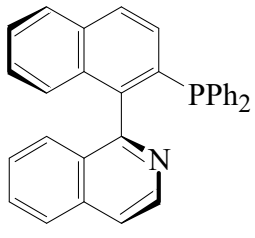
>>**Entry Name: 1-[2-(Diphenylphosphino)-1-naphthalenyl]isoquinoline,** 9CI
Synonym(s): 2-Diphenylphosphino-1-isoquinolinylnaphthalene. (1-Isoquinolinyl-2-naphthalenyl)diphenylphosphine



(S_{ax})-*form*

Type of Compound Code(s): AC0300

Molecular Formula: $C_{31}H_{22}NP$
Molecular Weight: 439.495
Accurate Mass: 439.148986
Percentage Composition: C 84.72%; H 5.05%; N 3.19%; P 7.05%
General Statement: Atropisomeric ligand
Use/Importance: Pd complex used as catalyst in allylic alkylations

>>**Variant:** (R_{ax})-form
CAS Registry Number: 149341-34-4
Type of Compound Code(s): AC0300
Molecular Formula: $C_{31}H_{22}NP$
Molecular Weight: 439.495
Accurate Mass: 439.148986
Percentage Composition: C 84.72%; H 5.05%; N 3.19%; P 7.05%
Physical Description: Solid
Optical Rotation: $[\alpha]_D^{21}$ +153.2 (c, 1.0 in $CHCl_3$)

>>**Variant:** (S_{ax})-form

CAS Registry Number: 149341-33-3
Type of Compound Code(s): AC0300
Molecular Formula: $C_{31}H_{22}NP$
Molecular Weight: 439.495
Accurate Mass: 439.148986
Percentage Composition: C 84.72%; H 5.05%; N 3.19%; P 7.05%
Physical Description: Solid
Melting Point: Mp 226-231°
Optical Rotation: $[\alpha]_D^{21}$ –153 (c, 1.0 in $CHCl_3$)

>>**Variant:** (±)-form

CAS Registry Number: 149245-03-4
Type of Compound Code(s): AC0300
Molecular Formula: $C_{31}H_{22}NP$
Molecular Weight: 439.495
Accurate Mass: 439.148986
Percentage Composition: C 84.72%; H 5.05%; N 3.19%; P 7.05%
General Statement: Resolved through a Pd complex
Physical Description: Cryst. (CH_2Cl_2)
Melting Point: Mp 217-219°

>>**Derivative:** *P*-Oxide

CAS Registry Number: 149245-07-8
Type of Compound Code(s): AC0310
Molecular Formula: $C_{31}H_{22}NOP$
Molecular Weight: 455.495
Accurate Mass: 455.143901
Percentage Composition: C 81.74%; H 4.87%; N 3.08%; O 3.51%; P 6.80%
Physical Description: Fine powder (toluene)
Melting Point: Mp 215-218°

References: