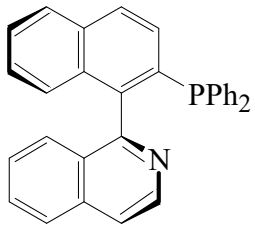
>>**Entry Name: 1-[2-(Diphenylphosphino)-1-naphthalenyl]isoquinoline,** 9CI
**Synonym(s):** 2-Diphenylphosphino-1-isoquinolinylnaphthalene. (1-Isoquinolinyl-2-naphthalenyl)diphenylphosphine




($S_{ax}$)-*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:**

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