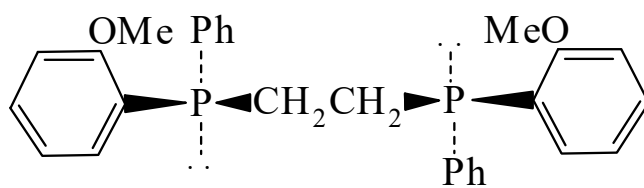




>>Entry Name: 1,2-Ethanediybis[(2-methoxyphenyl)phenylphosphine], 9Cl

Synonym(s): 1,2-Bis[(2-methoxyphenyl)phenylphosphino]ethane. DiPAMP



(R,R*)-form*

CAS Registry Number: 63589-61-7

Related CAS Registry Numbers(s): 55739-59-8 74713-67-0 85599-11-7

Molecular Formula: C₂₈H₂₈O₂P₂

Molecular Weight: 458.475

Accurate Mass: 458.156454

Percentage Composition: C 73.35%; H 6.16%; O 6.98%; P 13.51%

Use/Importance: Rh complexes used as catalysts in reductions with high enantioselectivity

Rare Chemicals Library: S84131-5

>>Variant: *(R*,R*)*-form

CAS Registry Number: 55739-58-7

Molecular Formula: C₂₈H₂₈O₂P₂

Molecular Weight: 458.475

Accurate Mass: 458.156454

Percentage Composition: C 73.35%; H 6.16%; O 6.98%; P 13.51%

Physical Description: Cryst. (MeOH) or needles (EtOAc/hexane)

Melting Point: Mp 102-104° (104-105°)

Optical Rotation: [α]_D²⁰ -85 (MeOH). [α]_D²⁰ -87.2 (c, 0.62 in CHCl₃)

Aldrich: 46186-5

>>Derivative: Dioxide

CAS Registry Number: 63449-61-6

Molecular Formula: C₂₈H₂₈O₄P₂

Molecular Weight: 490.474

Accurate Mass: 490.146284

Percentage Composition: C 68.57%; H 5.75%; O 13.05%; P 12.63%

Melting Point: Mp 205-207°

Optical Rotation: [α]_D²⁰ -46 (MeOH)

>>Variant: *(S*,S*)*-form

CAS Registry Number: 97858-62-3

Molecular Formula: C₂₈H₂₈O₂P₂

Molecular Weight: 458.475

Accurate Mass: 458.156454

Percentage Composition: C 73.35%; H 6.16%; O 6.98%; P 13.51%

Physical Description: Cryst. (MeOH)

Melting Point: Mp 102-103°

Optical Rotation: [α]_D²⁵ +87 (c, 1 in CHCl₃)

Aldrich: 46187-3

>>Variant: *(RS,SR)*-form

Synonym(s): *meso*-form

Molecular Formula: C₂₈H₂₈O₂P₂

Molecular Weight: 458.475

Accurate Mass: 458.156454

Percentage Composition: C 73.35%; H 6.16%; O 6.98%; P 13.51%

Other Data: Dec. on heating