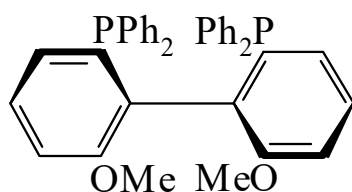




>>Entry Name: 2,2'-Bis(diphenylphosphino)-6,6'-dimethoxybiphenyl

Synonym(s): (6,6'-Dimethoxy[1,1'-biphenyl]-2,2'-diyl)bis(diphenylphosphine), 9CI



(R)-form

Related CAS Registry Numbers(s): 133577-83-0 133577-85-2

Molecular Formula: $C_{38}H_{32}O_2P_2$

Molecular Weight: 582.617

Accurate Mass: 582.187754

Percentage Composition: C 78.34%; H 5.54%; O 5.49%; P 10.63%

Use/Importance: Forms complexes with Pd, Rh, Ru. Useful in enantioselective isomerizations and hydrogenations

>>Variant: (R)-form

CAS Registry Number: 133545-16-1

Molecular Formula: $C_{38}H_{32}O_2P_2$

Molecular Weight: 582.617

Accurate Mass: 582.187754

Percentage Composition: C 78.34%; H 5.54%; O 5.49%; P 10.63%

Physical Description: Cryst. (EtOH/toluene)

Melting Point: Mp 214-215°

Optical Rotation: $[\alpha]_D^{20} +42.3$ (c, 1.0 in $CHCl_3$)

>>Derivative: P,P'-Dioxide

Synonym(s): 2,2'-Bis(diphenylphosphinyl)-6,6'-dimethoxybiphenyl

CAS Registry Number: 133577-82-9

Molecular Formula: $C_{38}H_{32}O_4P_2$

Molecular Weight: 614.616

Accurate Mass: 614.177584

Percentage Composition: C 74.26%; H 5.25%; O 10.41%; P 10.08%

Physical Description: Cryst.

Melting Point: Mp 338°

Optical Rotation: $[\alpha]_D^{20} +129.9$ (c, 1.0 in $CHCl_3$). $[\alpha]_D^{20} +98.4$ (c, 1.0 in EtOH)

>>Variant: (S)-form

CAS Registry Number: 133545-17-2

Molecular Formula: $C_{38}H_{32}O_2P_2$

Molecular Weight: 582.617

Accurate Mass: 582.187754

Percentage Composition: C 78.34%; H 5.54%; O 5.49%; P 10.63%

Physical Description: Cryst.

Melting Point: Mp 214-215°

Optical Rotation: $[\alpha]_D^{20} -42.5$ (c, 1.0 in $CHCl_3$)

>>Derivative: P,P'-Dioxide

CAS Registry Number: 133577-84-1

Melting Point: Mp 338°

Optical Rotation: $[\alpha]_D^{20} -130.4$ (c, 1.0 in $CHCl_3$). $[\alpha]_D^{20} -98.9$ (c, 1.0 in EtOH)

>>Variant: (±)-form

CAS Registry Number: 133577-92-1

Molecular Formula: $C_{38}H_{32}O_2P_2$

Molecular Weight: 582.617

Accurate Mass: 582.187754

Percentage Composition: C 78.34%; H 5.54%; O 5.49%; P 10.63%

Physical Description: Cryst. (MeOH/toluene)

Melting Point: Mp 218-219°