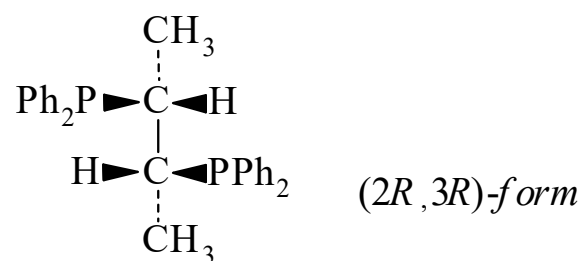




>>Entry Name: **2,3-Bis(diphenylphosphino)butane**

Synonym(s): (1,2-Dimethyl-1,2-ethanediyl)bis[diphenylphosphine], 10CI. Chiraphos



Related CAS Registry Numbers(s): 94665-46-0 110115-68-9

Molecular Formula: C₂₈H₂₈P₂

Molecular Weight: 426.477

Accurate Mass: 426.166624

Percentage Composition: C 78.86%; H 6.62%; P 14.53%

Use/Importance: Bidentate ligand. Pd and Rh complexes used in asymm. cyclizations

>>Variant: (2*R*,3*R*)-form

CAS Registry Number: 74839-84-2

Molecular Formula: C₂₈H₂₈P₂

Molecular Weight: 426.477

Accurate Mass: 426.166624

Percentage Composition: C 78.86%; H 6.62%; P 14.53%

Physical Description: Cryst. (EtOH)

Melting Point: Mp 106-107°

Optical Rotation: [α]_D²⁷+197 (c, 1.5 in CHCl₃)

Aldrich: 34793-0

Fluka: 14802

>>Variant: (2*S*,3*S*)-form

CAS Registry Number: 64896-28-2

Molecular Formula: C₂₈H₂₈P₂

Molecular Weight: 426.477

Accurate Mass: 426.166624

Percentage Composition: C 78.86%; H 6.62%; P 14.53%

Physical Description: Plates (EtOH)

Melting Point: Mp 108-109° (sealed tube) (101-103°)

Optical Rotation: [α]_D²⁷-211 (c, 1.5 in CHCl₃). [α]_D²⁷-266

Aldrich: 25909-8

Fluka: 14803

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