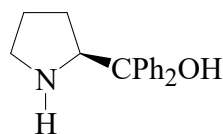




>>Entry Name: α,α -Diphenyl-2-pyrrolidinemethanol, 9CI

Synonym(s): 2-(Hydroxydiphenylmethyl)pyrrolidine. Diphenylprolinol. α -(2-Pyrrolidyl)benzhydrol



CAS Registry Number: 63401-04-7

Related CAS Registry Numbers(s): 35929-33-0 112068-08-3 144119-12-0

Molecular Formula: $C_{17}H_{19}NO$

Molecular Weight: 253.343

Accurate Mass: 253.146664

Percentage Composition: C 80.60%; H 7.56%; N 5.53%; O 6.32%

>>Variant: (*R*)-form

CAS Registry Number: 22348-32-9

Molecular Formula: $C_{17}H_{19}NO$

Molecular Weight: 253.343

Accurate Mass: 253.146664

Percentage Composition: C 80.60%; H 7.56%; N 5.53%; O 6.32%

Physical Description: Cryst. (Et_2O)

Melting Point: Mp 76-77°

Optical Rotation: $[\alpha]_D^{25} +73.8$ (c, 3.37 in $CHCl_3$)

>>Variant: (*S*)-form

CAS Registry Number: 112068-01-6

Molecular Formula: $C_{17}H_{19}NO$

Molecular Weight: 253.343

Accurate Mass: 253.146664

Percentage Composition: C 80.60%; H 7.56%; N 5.53%; O 6.32%

Use/Importance: Used for enantioselective reduction of ketones

Physical Description: Cryst. (hexane)

Melting Point: Mp 79-79.5° (74.0-74.8°)

Optical Rotation: $[\alpha]_D^{22} -68.1$ (c, 3.17 in $CHCl_3$) (99% ee)

Aldrich: 36819-9

>>Derivative: Sulfate

Melting Point: Mp 275-290°

>>Derivative: *N*-Me

Synonym(s): 2-(Methoxydiphenylmethyl)-1-methylpyrrolidine. DPMPM

CAS Registry Number: 110529-22-1

Molecular Formula: $C_{18}H_{21}NO$

Molecular Weight: 267.37

Accurate Mass: 267.162314

Percentage Composition: C 80.86%; H 7.92%; N 5.24%; O 5.98%

Use/Importance: Chiral catalyst

Physical Description: Cryst. (hexane)

Melting Point: Mp 65.8-68.9°

Optical Rotation: $[\alpha]_D^{23} +57$ (c, 1 in $CHCl_3$)

Aldrich: 42325-4

Fluka: 43119

>>Variant: ($\pm$)-form

Molecular Formula: $C_{17}H_{19}NO$

Molecular Weight: 253.343

Accurate Mass: 253.146664

Percentage Composition: C 80.60%; H 7.56%; N 5.53%; O 6.32%

Physical Description: Cryst. ($EtOH$ aq.)

Melting Point: Mp 82-83°