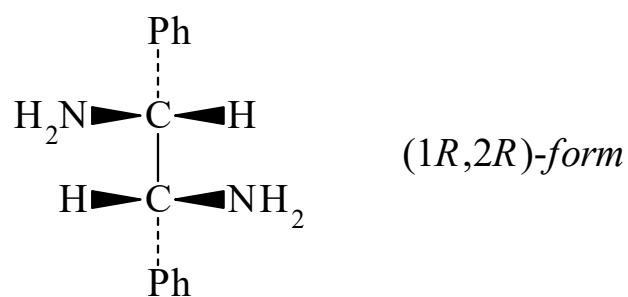




>>Entry Name: 1,2-Diphenyl-1,2-ethanediamine, 9CI

Synonym(s): 1,2-Diphenylethylenediamine, 8CI. 1,2-Diamino-1,2-diphenylethane. Stilbenediamine. α,β -Diaminodihydrostilbene



CAS Registry Number: 5700-60-7

Molecular Formula: C₁₄H₁₆N₂

Molecular Weight: 212.294

Accurate Mass: 212.131348

Percentage Composition: C 79.21%; H 7.60%; N 13.20%

Use/Importance: Versatile chiral auxiliary, chiral auxiliary in nmr

>>Variant: (1*R*,2*R*)-form

Synonym(s): (+)-*threo*-form

CAS Registry Number: 35132-20-8

Molecular Formula: C₁₄H₁₆N₂

Molecular Weight: 212.294

Accurate Mass: 212.131348

Percentage Composition: C 79.21%; H 7.60%; N 13.20%

Use/Importance: Effective pmr chiral resolving agent for carboxylic acids

Physical Description: Cryst.

Melting Point: Mp 85-86.5° (80°)

Optical Rotation: $[\alpha]_D^{22} +106.9$ (c, 1.07 in MeOH). $[\alpha]_D^{18} +82.6$ (c, 0.97 in Et₂O) (100% op)

Other Data: Has been assigned the opposite (incorrect) abs. config.

Aldrich: 36401-0

Fluka: 42743

>>Derivative: *N,N'*-Di-Me

Synonym(s): 1,2-Bis(methylamino)-1,2-diphenylethane

CAS Registry Number: 118628-68-5

Molecular Formula: C₁₆H₂₀N₂

Molecular Weight: 240.347

Accurate Mass: 240.162648

Percentage Composition: C 79.96%; H 8.39%; N 11.66%

Physical Description: Cryst. (pentane)

Melting Point: Mp 51°

Optical Rotation: $[\alpha]_D^{25} +20$ (c, 0.15 in CHCl₃) (>95% ee)

>>Variant: (1*S*,2*S*)-form

Synonym(s): (–)-*threo*-form

CAS Registry Number: 29841-69-8

Molecular Formula: C₁₄H₁₆N₂

Molecular Weight: 212.294

Accurate Mass: 212.131348

Percentage Composition: C 79.21%; H 7.60%; N 13.20%

Use/Importance: Polyamides are effective as chiral stationary phases for hplc resoln. of enantiomers

Melting Point: Mp 85.5-86°

Optical Rotation: $[\alpha]_D^{22} -83$ (c, 0.1 in Et₂O)

Other Data: Undergoes condensation polym.

Aldrich: 36400-2

Fluka: 42745