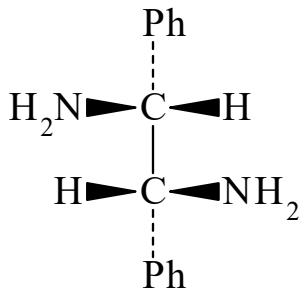
>>**Entry Name: 1,2-Diphenyl-1,2-ethanediamine,** 9CI

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



(1*R*,2*R*)-*form*

CAS Registry Number: 5700-60-7

Molecular Formula: $C_{14}H_{16}N_2$
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: $C_{14}H_{16}N_2$
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 Et_2O) (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: $C_{16}H_{20}N_2$
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 $CHCl_3$) (>95% ee)

>>**Variant:** (1*S*,2*S*)-form
Synonym(s): (–)-*threo*-form

CAS Registry Number: 29841-69-8
Molecular Formula: $C_{14}H_{16}N_2$
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 Et_2O)
Other Data: Undergoes condensation polym.
Aldrich: 36400-2
Fluka: 42745