



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

Synonym(s): *N,N'*-Diphenylethylenediamine. 1,2-Dianilinoethane. Wanzlick's reagent

CAS Registry Number: 150-61-8

Type of Compound Code(s): PG5150

PhNHCH₂CH₂NHPh

Molecular Formula: C₁₄H₁₆N₂

Molecular Weight: 212.294

Accurate Mass: 212.131348

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

Use/Importance: Antioxidant for siloxane rubber. Reagent for imidazolidine synth. Anal. reagent for aldehydes

Physical Description: Cryst. (EtOH)

Melting Point: Mp 74° (65°)

Boiling Point: Bp₂ 178-182°

Solubility: Insol. H₂O; sol. Me₂CO, C₆H₆

Aldrich: D2700-4

Fluka: 42747

Sigma: D3002

>>Derivative: Hydrochloride

CAS Registry Number: 99590-70-2

Physical Description: Cryst. (EtOH)

Melting Point: Mp 214-215°

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

Molecular Formula: C₁₈H₂₀N₂O₂

Molecular Weight: 296.368

Accurate Mass: 296.152478

Percentage Composition: C 72.95%; H 6.80%; N 9.45%; O 10.80%

Physical Description: Cryst. (Et₂O/petrol or Et₂O/EtOH)

Melting Point: Mp 156.5-157°

>>Derivative: *N,N'*-Dibenzoyl

Molecular Formula: C₂₈H₂₄N₂O₂

Molecular Weight: 420.51

Accurate Mass: 420.183778

Percentage Composition: C 79.98%; H 5.75%; N 6.66%; O 7.61%

Physical Description: Cryst. (Et₂O/petrol or Et₂O/EtOH)

Melting Point: Mp 193-194°

>>Derivative: *N,N'*-Bis(4-methylbenzenesulfonyl)

Physical Description: Cryst. (Et₂O/petrol or Et₂O/EtOH)

Melting Point: Mp 223-223.5°

>>Derivative: *N,N'*-Dinitroso

CAS Registry Number: 4979-29-7

Molecular Formula: C₁₄H₁₄N₄O₂

Molecular Weight: 270.29

Accurate Mass: 270.111676

Percentage Composition: C 62.21%; H 5.22%; N 20.73%; O 11.84%

Melting Point: Mp 157°

References: