



>>>Derivative: *N*-Cyclohexyl

Synonym(s): *N*-Cyclohexyl-*N'*-phenyl-1,4-benzenediamine, 9CI

CAS Registry Number: 101-87-1

Molecular Formula: C₁₈H₂₂N₂

Molecular Weight: 266.385

Accurate Mass: 266.178298

Percentage Composition: C 81.16%; H 8.32%; N 10.52%

Use/Importance: Antioxidant for polymers

Physical Description: Cryst. (hexane)

Melting Point: Mp 119-120° (117° - 118°)

>>>Derivative: *N*-(1-Methylheptyl)

Synonym(s): *N*-(1-Methylheptyl)-*N'*-phenyl-1,4-benzenediamine, 9CI

CAS Registry Number: 15233-47-3

Molecular Formula: C₂₀H₂₈N₂

Molecular Weight: 296.455

Accurate Mass: 296.225248

Percentage Composition: C 81.03%; H 9.52%; N 9.45%

Use/Importance: Antioxidant for polymers

>>>Derivative: *N*-(1,3-Dimethylbutyl)

Synonym(s): Antioxidant 4020. Antioxidant CD13. Vulkanox 4020. Many other synonyms

CAS Registry Number: 793-24-8

Molecular Formula: C₁₈H₂₄N₂

Molecular Weight: 268.401

Accurate Mass: 268.193948

Percentage Composition: C 80.55%; H 9.01%; N 10.44%

Use/Importance: Antioxidant

Melting Point: Mp 45-47°

Boiling Point: Bp₁ 163-165°

References:

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Dovell, F.S. *et al.*, *J.A.C.S.*, 1965, **87**, 2767-2768, (*1,3-dimethylbutyl*)

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