



>>Entry Name: **1,7-Heptanediamine**, 9CI
Synonym(s): Heptamethylenediamine. 1,7-Diaminoheptane

CAS Registry Number: 646-19-5
 $\text{H}_2\text{NCH}_2(\text{CH}_2)_5\text{CH}_2\text{NH}_2$

Molecular Formula: $\text{C}_7\text{H}_{18}\text{N}_2$
Molecular Weight: 130.233
Accurate Mass: 130.146998
Percentage Composition: C 64.56%; H 13.93%; N 21.51%
Use/Importance: Comonomer for polyamides
Melting Point: Mp 28-29°
Boiling Point: Bp 223-225°. Bp₁₁ 100-101°

Aldrich: D1740-8
Fluka: 32990
Sigma: D3266

>>Derivative: Hydrochloride (1:2)

CAS Registry Number: 15536-15-9
Melting Point: Mp 279-280°

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

CAS Registry Number: 3073-60-7
Molecular Formula: $\text{C}_{11}\text{H}_{22}\text{N}_2\text{O}_2$
Molecular Weight: 214.307
Accurate Mass: 214.168128
Percentage Composition: C 61.65%; H 10.35%; N 13.07%; O 14.93%
Melting Point: Mp 118°

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

CAS Registry Number: 32038-97-4
Molecular Formula: $\text{C}_{21}\text{H}_{26}\text{N}_2\text{O}_2$
Molecular Weight: 338.449
Accurate Mass: 338.199428
Percentage Composition: C 74.53%; H 7.74%; N 8.28%; O 9.45%
Melting Point: Mp 124°

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

CAS Registry Number: 22078-09-7
Molecular Formula: $\text{C}_9\text{H}_{22}\text{N}_2$
Molecular Weight: 158.286
Accurate Mass: 158.178298
Percentage Composition: C 68.29%; H 14.01%; N 17.70%
Boiling Point: Bp₁₀ 94-96°

>>Derivative: *N,N,N',N'*-Tetra-Me
Synonym(s): 1,7-Bisdimethylaminoheptane

CAS Registry Number: 29333-99-1
Molecular Formula: $\text{C}_{11}\text{H}_{26}\text{N}_2$
Molecular Weight: 186.34
Accurate Mass: 186.209598
Percentage Composition: C 70.90%; H 14.06%; N 15.03%
Boiling Point: Bp 228-230°. Bp₁₀ 94°

>>Derivative: *N,N,N',N'*-Tetra-Me, picrate

Melting Point: Mp 120°