>>**Entry Name: 4,4'-Diaminodiphenylmethane**
Synonym(s): 4,4'-Methylenebisbenzenamine, $_{9Cl}$. 4,4'-Methylenedianiline, $_{8Cl}$. Di(4-aminophenyl)methane. Bis(4-aminophenyl)methane. Tonox. MDA

CAS Registry Number: 101-77-9

Molecular Formula: $C_{13}H_{14}N_2$
Molecular Weight: 198.267
Accurate Mass: 198.115698
Percentage Composition: C 78.75%; H 7.12%; N 14.13%
Use/Importance: Cross-linking agent for epoxy resins. Intermed. in the prodn. of the corresponding 1,1'-Methylenebis[4-isocyanatobenzene] HGR79-X
Physical Description: Pearly leaflets (C_6H_6)
Melting Point: Mp 93°
Boiling Point: Bp 398-399°. Bp_9 232°
Solubility: Sl. sol. H_2O; v. sol. EtOH, C_6H_6, Et_2O
Hazard & Toxicity: Possible human carcinogen. Eye irritant. Hepatotoxic by ingestion and skin contact. Ingestion has also caused eye injury in man. LD_{50} (rat, orl) 347 mg/kg: OES: long-term 0.01 ppm (Sk, new)

Aldrich: 13245-4
Fluka: 32950
Sigma: M0288

>>**Derivative:** 4,4'-*N*-Di-Ac
Synonym(s): *N*,*N*'-(Methylenedi-4,1-phenylene)bisacetamide, $_{9Cl}$

CAS Registry Number: 2719-05-3
Molecular Formula: $C_{17}H_{18}N_2O_2$
Molecular Weight: 282.341
Accurate Mass: 282.136828
Percentage Composition: C 72.32%; H 6.43%; N 9.92%; O 11.33%
Melting Point: Mp 236-237°
Rare Chemicals Library: S68568-2

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

Molecular Formula: $C_{27}H_{22}N_2$
Molecular Weight: 374.484
Accurate Mass: 374.178298
Percentage Composition: C 86.60%; H 5.92%; N 7.48%
Physical Description: Leaflets
Melting Point: Mp 130°

>>**Derivative:** *N*-Me

CAS Registry Number: 26628-67-1
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%
Physical Description: Cryst.
Melting Point: Mp 61-63°

>>**Derivative:** *N*-Tetra-Me
see Bis(4-dimethylaminophenyl)methane, BJN89-N

>>**Derivative:** *N*-Tetra-Et
see Bis(4-diethylaminophenyl)methane, BJN75-G

References: