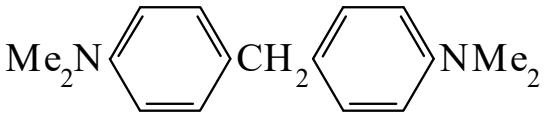
>>**Entry Name: Bis(4-dimethylaminophenyl)methane**
**Synonym(s):** 4,4'-Methylenebis[*N,N*-dimethylbenzenamine], $_{9Cl}$. 4,4'-Methylenebis[*N,N*-dimethylaniline], $_{8Cl}$. 4,4'-Tetramethyldiaminodiphenylmethane. Methane base. Michler's base. Tetra base. Arnold's base



**CAS Registry Number:** 101-61-1

**Molecular Formula:** $C_{17}H_{22}N_2$
**Molecular Weight:** 254.374
**Accurate Mass:** 254.178298
**Percentage Composition:** C 80.27%; H 8.72%; N 11.01%
**Use/Importance:** Used as 2% soln. in $Me_2CO$ to give colour reaction with $[Fe(CN)_6]^{3(-)}$
**Physical Description:** Leaflets or plates (EtOH or petrol)
**Melting Point:** Mp 91°
**Boiling Point:** Bp 390°. $Bp_3$ 182-185°
**Solubility:** Sol. $Me_2CO$
**Hazard & Toxicity:** Exp. carcinogen. $LD_{50}$ (mus, orl) 3160 mg/kg

**Aldrich:** M4445-1
**Fluka:** 87802
**Rare Chemicals Library:** S43663-1
**Sigma:** M6144

>>**Derivative:** Dipicrate

**Melting Point:** Mp 178°

>>**Derivative:** Methiodide (1:2)

**Physical Description:** Yellow leaflets
**Melting Point:** Mp 214 dec.°
**Other Data:** Becomes green at 193°

**References:**

*Aldrich Library of 13C and 1H FT NMR Spectra*, 1992, **2**, 549B, *(nmr)*
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Mangini, A. *et al.*, *J.C.S.*, 1956, 4954, *(uv)*
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Gasparič, J. *et al.*, *Coll. Czech. Chem. Comm.*, 1959, **24**, 1943, *(chromatog)*
Tupitsyn, I.F. *et al.*, *CA*, 1970, **75**, 34730b, *(nmr)*
Barluenga, J. *et al.*, *Chem. Comm.*, 1979, 339, *(synth)*
Lewis, R.J., *Sax's Dangerous Properties of Industrial Materials, 8th edn., Van Nostrand Reinhold*, 1992, MJN000