



>>Entry Name: **2,2-Dimethyl-1,3-propanediamine, 9CI**

Synonym(s): 2,2-Bis(aminomethyl)propane. 1,3-Diamino-2,2-dimethylpropane. Neopentylidiamine

CAS Registry Number: 7328-91-8

$(\text{H}_3\text{C})_2\text{C}(\text{CH}_2\text{NH}_2)_2$

Molecular Formula: $\text{C}_5\text{H}_{14}\text{N}_2$

Molecular Weight: 102.179

Accurate Mass: 102.115698

Percentage Composition: C 58.77%; H 13.81%; N 27.42%

Melting Point: Mp 29°

Boiling Point: Bp 157-159°. Bp₁₅ 65°

Density: d^{20}_4 0.851

pKa Value: $\text{p}K_{\text{a}}$ 10.18 (25°)

Refractive Index: n^{20}_{D} 1.4566

Other Data: Several polyamides have been synth.

Aldrich: 22692-0

>>Derivative: Hydrochloride (1:2)

CAS Registry Number: 29082-53-9

Melting Point: Mp 274°

Aldrich: 22693-9

>>Derivative: Dipicrate

Melting Point: Mp 234°

>>Derivative: Dibenzoyl

Molecular Formula: $\text{C}_{19}\text{H}_{22}\text{N}_2\text{O}_2$

Molecular Weight: 310.395

Accurate Mass: 310.168128

Percentage Composition: C 73.52%; H 7.14%; N 9.03%; O 10.31%

Melting Point: Mp 152°

>>Derivative: N^1 -Me

Molecular Formula: $\text{C}_6\text{H}_{16}\text{N}_2$

Molecular Weight: 116.206

Accurate Mass: 116.131348

Percentage Composition: C 62.02%; H 13.88%; N 24.11%

Melting Point: Mp 223-224° (as hydrochloride)

>>Derivative: N^1 , N^1 -Di-Me

CAS Registry Number: 53369-71-4

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%

Boiling Point: Bp 155-158°. Bp₄₅ 72-75°

Aldrich: 22741-2

>>Derivative: N^1 , N^1 -Di-Me; hydrochloride (1:2)

Melting Point: Mp 224-228°

References: