



>>Entry Name: Dibutylamine

Synonym(s): *N*-Butyl-1-butanamine, 9CI

CAS Registry Number: 111-92-2

Related CAS Registry Numbers(s): 7620-75-9

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

Molecular Formula: $\text{C}_8\text{H}_{19}\text{N}$

Molecular Weight: 129.245

Accurate Mass: 129.151749

Percentage Composition: C 74.35%; H 14.82%; N 10.84%

Use/Importance: Used for purifn. of Abietic and related acids by salt formn. Anal. reagent for org. isothiocyanates

Melting Point: Fp -61.9°

Boiling Point: Bp 159°

Solubility: Sol. H_2O , EtOH

Hazard & Toxicity: Corrosive and irritating to skin and eyes. LD₅₀ (rat, orl) 220 mg/kg. LD₅₀ (rbt, skn) 1010 mg/kg. Flammable, fl. p. 41/47°

Aldrich: D4495-2

Fluka: 34500

Sigma: D2883

>>Derivative: Hydrochloride

CAS Registry Number: 6287-40-7

Melting Point: Mp 283°

Rare Chemicals Library: S56615-2

Other: PB D11130

>>Derivative: Picrate

Melting Point: Mp 59° (98-99°)

>>Derivative: *N*-Me

Synonym(s): Dibutylmethylamine

CAS Registry Number: 3405-45-6

Molecular Formula: $\text{C}_9\text{H}_{21}\text{N}$

Molecular Weight: 143.272

Accurate Mass: 143.167399

Percentage Composition: C 75.45%; H 14.77%; N 9.78%

Physical Description: Liq.

Melting Point: Fp -62°

Boiling Point: Bp 159.6°

Density: d_{20}^{20} 0.761

Hazard & Toxicity: Skin irritant. LD₅₀ (rat, orl) 540 mg/kg. Flammable

Aldrich: 30812-9

>>Derivative: *N*-Nitroso

Synonym(s): *N*-Nitrosodibutylamine. Dibutylnitrosamine

CAS Registry Number: 924-16-3

Molecular Formula: $\text{C}_8\text{H}_{18}\text{N}_2\text{O}$

Molecular Weight: 158.243

Accurate Mass: 158.141913

Percentage Composition: C 60.72%; H 11.46%; N 17.70%; O 10.11%

Physical Description: Yellow oil

Boiling Point: Bp₂₁ 125-125.5°. Bp_{0.4} 67-70°

Density: d_4^{20} 0.9009

Refractive Index: n_D 1.4475

Hazard & Toxicity: Probable carcinogen

References: