



>>Entry Name: *N*-Benzylidene-2-methyl-2-propylamine

Synonym(s): 2-Methyl-*N*-(phenylmethylene)-2-propanamine, 9Cl. *N*-Benzylidene-1,1-dimethylethylamine, 8Cl. *N*-Benzylidene-*tert*-butylamine

CAS Registry Number: 6852-58-0

$(\text{H}_3\text{C})_3\text{CN}=\text{CHPh}$

Molecular Formula: $\text{C}_{11}\text{H}_{15}\text{N}$

Molecular Weight: 161.246

Accurate Mass: 161.120449

Percentage Composition: C 81.94%; H 9.38%; N 8.69%

Rare Chemicals Library: S37663-9

>>Variant: (*E*)-form

CAS Registry Number: 75815-77-9

Molecular Formula: $\text{C}_{11}\text{H}_{15}\text{N}$

Molecular Weight: 161.246

Accurate Mass: 161.120449

Percentage Composition: C 81.94%; H 9.38%; N 8.69%

Boiling Point: Bp_{11} 90-92°

Density: d_4^{25} 0.904

Refractive Index: n_D^{20} 1.5211

>>Derivative: *N*-Oxide

Synonym(s): *N-tert*-Butyl- α -phenylnitrone, 8Cl

CAS Registry Number: 52392-70-8

Extra CAS Registry Numbers(s): 3376-24-7

Molecular Formula: $\text{C}_{11}\text{H}_{15}\text{NO}$

Molecular Weight: 177.246

Accurate Mass: 177.115364

Percentage Composition: C 74.54%; H 8.53%; N 7.90%; O 9.03%

Use/Importance: Spin trap

Physical Description: Cryst. (petrol)

Melting Point: Mp 75-76°

Other Data: Has (*Z*)-config. (change of *R,S*-priorities)

References:

Gina, M. *et al.*, *J. Prakt. Chem.*, 1925, **110**, 289-308, (*synth*)

Campbell, K.N. *et al.*, *J.A.C.S.*, 1948, **70**, 3868-3870, (*synth*)

Emmons, W.D., *J.A.C.S.*, 1957, **79**, 5739, (*synth, uv, N-oxide*)

Emling, B.T. *et al.*, *J.O.C.*, 1959, **24**, 657, (*synth*)

Parry, K.H.W. *et al.*, *J.C.S.(B)*, 1970, 700, (*pmr, ir*)

Witanowski, M. *et al.*, *Tetrahedron*, 1973, **29**, 2833, (*N-14 nmr, N-oxide*)

Goodrow, M. *et al.*, *J.O.C.*, 1974, **30**, 3447, (*N-oxide, pmr, uv*)