Benzhydrylamine

Other names:	Aminodiphenylmethane
	Benzenemethanamine, «alpha»-phenyl-
	«alpha»-Aminodiphenylmethane
	«alpha»-Phenylbenzylamine
	(Diphenylmethyl)amine
	Methanamine, 1,1-diphenyl-
	Methylamine, 1,1-diphenyl-
	1,1-Diphenylmethylamine
	NSC 49127
Inchi:	InChI=1S/C13H13N/c14-13(11-7-3-1-4-8-11)12-9-5-2-6-10-12/h1-10,13H,14H2
InchiKey:	MGHPNCMVUAKAIE-UHFFFAOYSA-N
Formula:	C13H13N
SMILES:	NC(c1ccccc1)c1ccccc1
Mol. weight [g/mol]:	183.25
CAS:	91-00-9

Physical Properties

Property code	Value	Unit	Source
gf	347.41	kJ/mol	Joback Method
hf	189.92	kJ/mol	Joback Method
hfus	19.18	kJ/mol	Joback Method
hvap	59.34	kJ/mol	Joback Method
log10ws	-3.46		Crippen Method
logp	2.735		Crippen Method
mcvol	156.490	ml/mol	McGowan Method
pc	3306.75	kPa	Joback Method
rinpol	1589.40		NIST Webbook
tb	568.20	K	NIST Webbook
tc	880.04	K	Joback Method
tf	357.37	K	Joback Method
vc	0.571	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	385.50	J/mol×K	622.29	Joback Method
cpg	401.98	J/mol×K	665.25	Joback Method
cpg	417.04	J/mol×K	708.21	Joback Method
cpg	430.79	J/mol×K	751.17	Joback Method
cpg	443.31	J/mol×K	794.13	Joback Method
cpg	454.71	J/mol×K	837.08	Joback Method
cpg	465.09	J/mol×K	880.04	Joback Method

Sources

Joback Method:	https://en.wikipedia.org/wiki/Joback_method
McGowan Method:	http://link.springer.com/article/10.1007/BF02311772
NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=C91009&Units=SI
Crippen Method:	http://pubs.acs.org/doi/abs/10.1021/ci990307l
Crippen Method:	https://www.chemeo.com/doc/models/crippen_log10ws

Legend

cpg:	Ideal gas heat capacity
gf:	Standard Gibbs free energy of formation
hf:	Enthalpy of formation at standard conditions
hfus:	Enthalpy of fusion at standard conditions
hvap:	Enthalpy of vaporization at standard conditions
log10ws:	Log10 of Water solubility in mol/l
logp:	Octanol/Water partition coefficient
mcvol:	McGowan's characteristic volume
pc:	Critical Pressure
rinpol:	Non-polar retention indices
tb:	Normal Boiling Point Temperature
tc:	Critical Temperature
tf:	Normal melting (fusion) point
vc:	Critical Volume

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