Dibenzylamine, 4,4'-dimethyl-

Inchi: InChI=1S/C16H19N/c1-13-3-7-15(8-4-13)11-17-12-16-9-5-14(2)6-10-16/h3-10,17H,11-12
InchiKey: XKUYLMSRBGFLFH-UHFFFAOYSA-N
Formula: C16H19N
SMILES: Cc1ccc(CNCc2ccc(C)cc2)cc1
Mol. weight [g/mol]: 225.33
CAS: 98180-43-9

Physical Properties

Property code	Value	Unit	Source
gf	378.79	kJ/mol	Joback Method
hf	130.02	kJ/mol	Joback Method
hfus	29.60	kJ/mol	Joback Method
hvap	63.52	kJ/mol	Joback Method
log10ws	-5.02		Crippen Method
logp	3.593		Crippen Method
mcvol	198.760	ml/mol	McGowan Method
pc	2248.26	kPa	Joback Method
tb	678.97	K	Joback Method
tc	908.92	K	Joback Method
tf	400.62	K	Joback Method
vc	0.750	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	526.47	J/mol×K	678.97	Joback Method
cpg	543.82	J/mol×K	717.30	Joback Method
cpg	559.95	J/mol×K	755.62	Joback Method
cpg	574.94	J/mol×K	793.95	Joback Method
cpg	588.84	J/mol×K	832.27	Joback Method
cpg	601.72	J/mol×K	870.60	Joback Method
cpg	613.65	J/mol×K	908.92	Joback Method

Sources

Crippen Method:	https://www.chemeo.com/doc/models/crippen_log10ws
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=C98180439&Units=SI
Crippen Method:	http://pubs.acs.org/doi/abs/10.1021/ci990307l

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
tb:	Normal Boiling Point Temperature
tc:	Critical Temperature
tf:	Normal melting (fusion) point
vc:	Critical Volume