Dibenzylamine, N-isoBOC

Inchi: InChI=1S/C19H23NO2/c1-16(2)15-22-19(21)20(13-17-9-5-3-6-10-17)14-18-11-7-4-8-12-
InchiKey: LJHBMKIDADLCHL-UHFFFAOYSA-N
Formula: C19H23NO2
SMILES: CC(C)COC(=O)N(Cc1ccccc1)Cc1ccccc1
Mol. weight [g/mol]: 297.39

Physical Properties

Property code	Value	Unit	Source
gf	208.34	kJ/mol	Joback Method
hf	-144.98	kJ/mol	Joback Method
hfus	35.33	kJ/mol	Joback Method
hvap	73.25	kJ/mol	Joback Method
log10ws	-5.14		Crippen Method
logp	4.481		Crippen Method
mcvol	248.470	ml/mol	McGowan Method
pc	1845.16	kPa	Joback Method
rinpol	2176.00		NIST Webbook
tb	775.77	K	Joback Method
tc	998.10	K	Joback Method
tf	446.36	K	Joback Method
vc	0.919	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	723.72	J/mol×K	775.77	Joback Method
cpg	740.80	J/mol×K	812.83	Joback Method
cpg	756.57	J/mol×K	849.88	Joback Method
cpg	771.10	J/mol×K	886.94	Joback Method
cpg	784.48	J/mol×K	923.99	Joback Method
cpg	796.77	J/mol×K	961.05	Joback Method
cpg	808.04	J/mol×K	998.10	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=R392419&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