2,6-Di-t-butylpiperidine

Inchi: InChI=1S/C13H27N/c1-12(2,3)10-8-7-9-11(14-10)13(4,5)6/h10-11,14H,7-9H2,1-6H3
InchiKey: ZOYHTWUFFGGARK-UHFFFAOYSA-N
Formula: C13H27N
SMILES: CC(C)(C)C1CCCC(C(C)(C)C)N1
Mol. weight [g/mol]: 197.36
CAS: 66922-18-7

Physical Properties

Property code	Value	Unit	Source
affp	992.50	kJ/mol	NIST Webbook
basg	960.10	kJ/mol	NIST Webbook
gf	168.71	kJ/mol	Joback Method
hf	-257.36	kJ/mol	Joback Method
hfus	17.09	kJ/mol	Joback Method
hvap	48.82	kJ/mol	Joback Method
log10ws	-4.09		Crippen Method
logp	3.589		Crippen Method
mcvol	193.150	ml/mol	McGowan Method
pc	2009.10	kPa	Joback Method
tb	553.81	K	Joback Method
tc	773.20	K	Joback Method
tf	349.28	K	Joback Method
vc	0.711	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	506.17	J/mol×K	553.81	Joback Method
cpg	530.64	J/mol×K	590.38	Joback Method
cpg	553.58	J/mol×K	626.94	Joback Method
cpg	575.05	J/mol×K	663.51	Joback Method
cpg	595.12	J/mol×K	700.07	Joback Method
cpg	613.87	J/mol×K	736.64	Joback Method
cpg	631.35	J/mol×K	773.20	Joback Method

Sources

Crippen Method:	http://pubs.acs.org/doi/abs/10.1021/ci990307l
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=C66922187&Units=SI

Legend

affp:	Proton affinity
basg:	Gas basicity
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