tert-butyl-n-hexyl-amine

Inchi: InChI=1S/C10H23N/c1-5-6-7-8-9-11-10(2,3)4/h11H,5-9H2,1-4H3
InchiKey: RHZJKMCFRSWRBA-UHFFFAOYSA-N
Formula: C10H23N
SMILES: CCCCCCNC(C)(C)C
Mol. weight [g/mol]: 157.30
CAS: 4307-08-8

Physical Properties

Property code	Value	Unit	Source
gf	125.55	kJ/mol	Joback Method
hf	-205.01	kJ/mol	Joback Method
hfus	19.34	kJ/mol	Joback Method
hvap	42.99	kJ/mol	Joback Method
log10ws	-3.31		Crippen Method
logp	2.955		Crippen Method
mcvol	161.740	ml/mol	McGowan Method
pc	2171.40	kPa	Joback Method
rinpol	1035.00		NIST Webbook
tb	475.14	K	Joback Method
tc	651.28	K	Joback Method
tf	257.54	K	Joback Method
vc	0.620	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	370.53	J/mol×K	475.14	Joback Method
cpg	387.18	J/mol×K	504.50	Joback Method
cpg	403.05	J/mol×K	533.85	Joback Method
cpg	418.18	J/mol×K	563.21	Joback Method
cpg	432.58	J/mol×K	592.57	Joback Method
cpg	446.28	J/mol×K	621.93	Joback Method
cpg	459.32	J/mol×K	651.28	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=C4307088&Units=SI

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