1-(4-Fluorophenyl)-2-methyl-2-propylamine

Inchi: InChI=1S/C10H14FN/c1-10(2,12)7-8-3-5-9(11)6-4-8/h3-6H,7,12H2,1-2H3
InchiKey: JITFIYFVPMQJOK-UHFFFAOYSA-N
Formula: C10H14FN
SMILES: CC(C)(N)Cc1ccc(F)cc1
Mol. weight [g/mol]: 167.22
CAS: 1200-27-7

Physical Properties

Property code	Value	Unit	Source
gf	10.58	kJ/mol	Joback Method
hf	-195.74	kJ/mol	Joback Method
hfus	16.17	kJ/mol	Joback Method
hvap	49.32	kJ/mol	Joback Method
log10ws	-2.99		Crippen Method
logp	2.106		Crippen Method
mcvol	139.750	ml/mol	McGowan Method
pc	2982.79	kPa	Joback Method
tb	528.43	K	Joback Method
tc	747.80	K	Joback Method
tf	327.67	K	Joback Method
vc	0.523	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	327.76	J/mol×K	528.43	Joback Method
cpg	342.70	J/mol×K	564.99	Joback Method
cpg	356.62	J/mol×K	601.55	Joback Method
cpg	369.58	J/mol×K	638.11	Joback Method
cpg	381.63	J/mol×K	674.67	Joback Method
cpg	392.83	J/mol×K	711.24	Joback Method
cpg	403.24	J/mol×K	747.80	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=C1200277&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
tb:	Normal Boiling Point Temperature
tc:	Critical Temperature
tf:	Normal melting (fusion) point
vc:	Critical Volume