Urea, 1-(p-fluorophenyl)-3-methyl-

Inchi: InChI=1S/C8H9FN2O/c1-10-8(12)11-7-4-2-6(9)3-5-7/h2-5H,1H3,(H2,10,11,12)
InchiKey: MGVNYJAWTVSWFD-UHFFFAOYSA-N
Formula: C8H9FN2O
SMILES: CNC(=O)Nc1ccc(F)cc1
Mol. weight [g/mol]: 168.17
CAS: 772-55-4

Physical Properties

Property code	Value	Unit	Source
gf	-25.69	kJ/mol	Joback Method
hf	-185.14	kJ/mol	Joback Method
hfus	25.01	kJ/mol	Joback Method
hvap	55.14	kJ/mol	Joback Method
log10ws	-2.17		Crippen Method
logp	1.577		Crippen Method
mcvol	123.120	ml/mol	McGowan Method
pc	3782.33	kPa	Joback Method
tb	567.58	K	Joback Method
tc	780.22	K	Joback Method
tf	374.70	K	Joback Method
vc	0.469	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	286.44	J/mol×K	567.58	Joback Method
cpg	297.64	J/mol×K	603.02	Joback Method
cpg	308.12	J/mol×K	638.46	Joback Method
cpg	317.91	J/mol×K	673.90	Joback Method
cpg	327.03	J/mol×K	709.34	Joback Method
cpg	335.52	J/mol×K	744.78	Joback Method
cpg	343.40	J/mol×K	780.22	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=C772554&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