Urea, (2-fluoroethyl)-

Inchi: InChI=1S/C3H7FN2O/c4-1-2-6-3(5)7/h1-2H2,(H3,5,6,7)
InchiKey: SNHLRJSKPOPBPO-UHFFFAOYSA-N
Formula: C3H7FN2O
SMILES: NC(=O)NCCF
Mol. weight [g/mol]: 106.10
CAS: 13907-90-9

Physical Properties

Property code	Value	Unit	Source
gf	-193.51	kJ/mol	Joback Method
hf	-326.68	kJ/mol	Joback Method
hfus	18.50	kJ/mol	Joback Method
hvap	45.28	kJ/mol	Joback Method
log10ws	-0.31		Crippen Method
logp	-0.376		Crippen Method
mcvol	76.430	ml/mol	McGowan Method
pc	4973.33	kPa	Joback Method
tb	443.88	K	Joback Method
tc	634.13	K	Joback Method
tf	310.01	K	Joback Method
vc	0.291	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	159.78	J/mol×K	443.88	Joback Method
cpg	166.98	J/mol×K	475.59	Joback Method
cpg	173.84	J/mol×K	507.30	Joback Method
cpg	180.37	J/mol×K	539.01	Joback Method
cpg	186.57	J/mol×K	570.72	Joback Method
cpg	192.47	J/mol×K	602.42	Joback Method
cpg	198.06	J/mol×K	634.13	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=C13907909&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