

Urea, 1-(2-fluoroethyl)-3-(2-norbornanyl)-

Inchi:	InChI=1S/C10H17FN2O/c11-3-4-12-10(14)13-9-6-7-1-2-8(9)5-7/h7-9H,1-6H2,(H2,12,13,
InchiKey:	WDOJNUSZUOZHTL-UHFFFAOYSA-N
Formula:	C10H17FN2O
SMILES:	O=C(NCCF)NC1CC2CCC1C2
Mol. weight [g/mol]:	200.25
CAS:	13907-96-5

Physical Properties

Property code	Value	Unit	Source
gf	-9.94	kJ/mol	Joback Method
hf	-332.38	kJ/mol	Joback Method
hfus	31.77	kJ/mol	Joback Method
hvap	56.34	kJ/mol	Joback Method
log10ws	-2.41		Crippen Method
logp	1.444		Crippen Method
mcvol	153.340	ml/mol	McGowan Method
pc	2823.32	kPa	Joback Method
tb	594.76	K	Joback Method
tc	793.85	K	Joback Method
tf	386.42	K	Joback Method
vc	0.595	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	430.05	J/molxK	594.76	Joback Method
cpg	446.24	J/molxK	627.94	Joback Method
cpg	461.42	J/molxK	661.12	Joback Method
cpg	475.67	J/molxK	694.31	Joback Method
cpg	489.04	J/molxK	727.49	Joback Method
cpg	501.59	J/molxK	760.67	Joback Method
cpg	513.37	J/molxK	793.85	Joback Method

Sources

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=C13907965&Units=SI
Crippen Method:	http://pubs.acs.org/doi/abs/10.1021/ci990307l
Crippen Method:	https://www.chemeo.com/doc/models/crippen_log10ws

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

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