Urea, 1-cyclohexyl-3-hydroxyethyl-

Inchi: InChI=1S/C9H18N2O2/c12-7-6-10-9(13)11-8-4-2-1-3-5-8/h8,12H,1-7H2,(H2,10,11,13)
InchiKey: MJBAEQKACQBEMK-UHFFFAOYSA-N
Formula: C9H18N2O2
SMILES: O=C(NCCO)NC1CCCCC1
Mol. weight [g/mol]: 186.25
CAS: 66929-46-2

Physical Properties

Property code	Value	Unit	Source
gf	-37.61	kJ/mol	Joback Method
hf	-332.64	kJ/mol	Joback Method
hfus	26.79	kJ/mol	Joback Method
hvap	72.35	kJ/mol	Joback Method
log10ws	-1.99		Crippen Method
logp	0.611		Crippen Method
mcvol	154.210	ml/mol	McGowan Method
pc	3476.55	kPa	Joback Method
tb	671.26	K	Joback Method
tc	869.38	K	Joback Method
tf	414.64	K	Joback Method
vc	0.568	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	447.14	J/mol×K	671.26	Joback Method
cpg	460.94	J/mol×K	704.28	Joback Method
cpg	473.90	J/mol×K	737.30	Joback Method
cpg	486.04	J/mol×K	770.32	Joback Method
cpg	497.39	J/mol×K	803.34	Joback Method
cpg	507.99	J/mol×K	836.36	Joback Method
cpg	517.85	J/mol×K	869.38	Joback Method

Sources

McGowan Method:	http://link.springer.com/article/10.1007/BF02311772
NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=C66929462&Units=SI
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

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