Urea, p-menth-3-yl-

Inchi: InChI=1S/C11H22N2O/c1-7(2)9-5-4-8(3)6-10(9)13-11(12)14/h7-10H,4-6H2,1-3H3,(H3,12
InchiKey: ZHDFNTPMUOKIJA-UHFFFAOYSA-N
Formula: C11H22N2O
SMILES: CC1CCC(C(C)C)C(NC(N)=O)C1
Mol. weight [g/mol]: 198.31
CAS: 116374-05-1

Physical Properties

Property code	Value	Unit	Source
gf	75.25	kJ/mol	Joback Method
hf	-287.33	kJ/mol	Joback Method
hfus	26.60	kJ/mol	Joback Method
hvap	63.33	kJ/mol	Joback Method
log10ws	-3.09		Crippen Method
logp	2.115		Crippen Method
mcvol	176.520	ml/mol	McGowan Method
pc	2515.07	kPa	Joback Method
tb	637.42	K	Joback Method
tc	854.03	K	Joback Method
tf	383.48	K	Joback Method
vc	0.646	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	506.21	J/mol×K	637.42	Joback Method
cpg	525.30	J/mol×K	673.52	Joback Method
cpg	543.23	J/mol×K	709.62	Joback Method
cpg	560.00	J/mol×K	745.72	Joback Method
cpg	575.64	J/mol×K	781.83	Joback Method
cpg	590.19	J/mol×K	817.93	Joback Method
cpg	603.66	J/mol×K	854.03	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=C116374051&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