Urea, 1-(2-chloroethyl)-3-tricyclo[2.2.1.0^2^,^6]hept-3-y

Other names: Urea, 1-(2-chloroethyl)-3-tricyclo[2.2.1.0

Inchi: InChI=1S/C10H15ClN2O/c11-1-2-12-10(14)13-9-5-3-6-7(4-5)8(6)9/h5-9H,1-4H2,(H2,12,1

InchiKey: LSFAPHOIHHKQHK-UHFFFAOYSA-N

Formula: C10H15ClN2O

SMILES: O=C(NCCCl)NC1C2CC3C(C2)C31

Mol. weight [g/mol]: 214.69

CAS: 33298-50-9

Physical Properties

Property code	Value	Unit	Source
gf	262.28	kJ/mol	Joback Method
hf	-81.07	kJ/mol	Joback Method
hfus	38.40	kJ/mol	Joback Method
hvap	60.63	kJ/mol	Joback Method
log10ws	-2.12		Crippen Method
logp	1.179		Crippen Method
mcvol	152.950	ml/mol	McGowan Method
pc	2915.53	kPa	Joback Method
tb	622.18	K	Joback Method
tc	828.28	K	Joback Method
tf	440.01	K	Joback Method
vc	0.606	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	433.88	J/mol×K	622.18	Joback Method
cpg	448.25	J/mol×K	656.53	Joback Method
cpg	461.63	J/mol×K	690.88	Joback Method
cpg	474.14	J/mol×K	725.23	Joback Method
cpg	485.88	J/mol×K	759.58	Joback Method
cpg	496.95	J/mol×K	793.93	Joback Method
cpg	507.46	J/mol×K	828.28	Joback Method

Sources

NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=C33298509&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
McGowan Method:	http://link.springer.com/article/10.1007/BF02311772

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