Hexanamide, N-cyclohexyl

Inchi: InChI=1S/C12H23NO/c1-2-3-5-10-12(14)13-11-8-6-4-7-9-11/h11H,2-10H2,1H3,(H,13,14)
InchiKey: BSUQYCXDASMZBB-UHFFFAOYSA-N
Formula: C12H23NO
SMILES: CCCCCC(=O)NC1CCCCC1
Mol. weight [g/mol]: 197.32

Physical Properties

Property code	Value	Unit	Source
gf	35.08	kJ/mol	Joback Method
hf	-295.80	kJ/mol	Joback Method
hfus	25.37	kJ/mol	Joback Method
hvap	55.92	kJ/mol	Joback Method
log10ws	-3.82		Crippen Method
logp	3.016		Crippen Method
mcvol	180.630	ml/mol	McGowan Method
pc	2291.52	kPa	Joback Method
rinpol	1645.00		NIST Webbook
rinpol	1645.00		NIST Webbook
tb	597.55	K	Joback Method
tc	799.31	K	Joback Method
tf	334.97	K	Joback Method
vc	0.681	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	484.02	J/mol×K	597.55	Joback Method
cpg	503.07	J/mol×K	631.18	Joback Method
cpg	521.06	J/mol×K	664.80	Joback Method
cpg	538.02	J/mol×K	698.43	Joback Method
cpg	553.98	J/mol×K	732.05	Joback Method
cpg	568.98	J/mol×K	765.68	Joback Method
cpg	583.05	J/mol×K	799.31	Joback Method

Sources

NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=R50686&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
rinpol:	Non-polar retention indices
tb:	Normal Boiling Point Temperature
tc:	Critical Temperature
tf:	Normal melting (fusion) point
vc:	Critical Volume