Acetamide, n-2-cyclohexyl-4-methylphenyl-

Inchi: InChI=1S/C15H21NO/c1-11-8-9-15(16-12(2)17)14(10-11)13-6-4-3-5-7-13/h8-10,13H,3-7
InchiKey: XPSMGPWALMJSNE-UHFFFAOYSA-N
Formula: C15H21NO
SMILES: CC(=O)Nc1ccc(C)cc1C1CCCCC1
Mol. weight [g/mol]: 231.33

Physical Properties

Property code	Value	Unit	Source
gf	153.49	kJ/mol	Joback Method
hf	-144.13	kJ/mol	Joback Method
hfus	26.40	kJ/mol	Joback Method
hvap	66.19	kJ/mol	Joback Method
log10ws	-4.49		Crippen Method
logp	4.001		Crippen Method
mcvol	199.140	ml/mol	McGowan Method
pc	2320.31	kPa	Joback Method
tb	702.83	K	Joback Method
tc	936.23	K	Joback Method
tf	420.24	K	Joback Method
vc	0.742	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	567.52	J/mol×K	702.83	Joback Method
cpg	586.45	J/mol×K	741.73	Joback Method
cpg	603.99	J/mol×K	780.63	Joback Method
cpg	620.19	J/mol×K	819.53	Joback Method
cpg	635.13	J/mol×K	858.43	Joback Method
cpg	648.84	J/mol×K	897.33	Joback Method
cpg	661.38	J/mol×K	936.23	Joback Method

Sources

McGowan Method:	http://link.springer.com/article/10.1007/BF02311772
NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=B6009676&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