Acetamide, N-(1-naphthyl)-2-acetoxy-

Inchi: InChI=1S/C14H13NO3/c1-10(16)18-9-14(17)15-13-8-4-6-11-5-2-3-7-12(11)13/h2-8H,9H2
InchiKey: HPBLLAJQCZIZJI-UHFFFAOYSA-N
Formula: C14H13NO3
SMILES: CC(=O)OCC(=O)Nc1cccc2ccccc12
Mol. weight [g/mol]: 243.26

Physical Properties

Property code	Value	Unit	Source
gf	2.98	kJ/mol	Joback Method
hf	-220.07	kJ/mol	Joback Method
hfus	32.17	kJ/mol	Joback Method
hvap	73.67	kJ/mol	Joback Method
log10ws	-3.18		Crippen Method
logp	2.341		Crippen Method
mcvol	183.890	ml/mol	McGowan Method
pc	2832.35	kPa	Joback Method
rinpol	2146.00		NIST Webbook
rinpol	2146.00		NIST Webbook
tb	750.69	K	Joback Method
tc	980.88	K	Joback Method
tf	493.93	K	Joback Method
vc	0.699	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	497.98	J/mol×K	750.69	Joback Method
cpg	510.33	J/mol×K	789.06	Joback Method
cpg	521.71	J/mol×K	827.42	Joback Method
cpg	532.20	J/mol×K	865.79	Joback Method
cpg	541.85	J/mol×K	904.15	Joback Method
cpg	550.72	J/mol×K	942.52	Joback Method
cpg	558.87	J/mol×K	980.88	Joback Method

Sources

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
NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=U307098&Units=SI

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