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

Inchi: InChI=1S/C13H13NO2/c1-16-9-13(15)14-12-8-4-6-10-5-2-3-7-11(10)12/h2-8H,9H2,1H3,(
InchiKey: HLXLYOLEZXTERZ-UHFFFAOYSA-N
Formula: C13H13NO2
SMILES: COCC(=O)Nc1cccc2ccccc12
Mol. weight [g/mol]: 215.25

Physical Properties

Property code	Value	Unit	Source
gf	123.48	kJ/mol	Joback Method
hf	-86.85	kJ/mol	Joback Method
hfus	27.98	kJ/mol	Joback Method
hvap	64.70	kJ/mol	Joback Method
log10ws	-2.98		Crippen Method
logp	2.425		Crippen Method
mcvol	168.230	ml/mol	McGowan Method
pc	2934.52	kPa	Joback Method
rinpol	1973.00		NIST Webbook
tb	673.94	K	Joback Method
tc	902.64	K	Joback Method
tf	432.73	K	Joback Method
vc	0.636	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	433.91	J/mol×K	673.94	Joback Method
cpg	447.43	J/mol×K	712.06	Joback Method
cpg	459.98	J/mol×K	750.17	Joback Method
cpg	471.61	J/mol×K	788.29	Joback Method
cpg	482.37	J/mol×K	826.40	Joback Method
cpg	492.33	J/mol×K	864.52	Joback Method
cpg	501.54	J/mol×K	902.64	Joback Method

Sources

NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=U307264&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