1-Naphthamide, N-butyl-N-methyl-

Inchi: InChI=1S/C16H19NO/c1-3-4-12-17(2)16(18)15-11-7-9-13-8-5-6-10-14(13)15/h5-11H,3-4
InchiKey: USARQKBJHSKDOL-UHFFFAOYSA-N
Formula: C16H19NO
SMILES: CCCCN(C)C(=O)c1cccc2ccccc12
Mol. weight [g/mol]: 241.33

Physical Properties

Property code	Value	Unit	Source
gf	275.13	kJ/mol	Joback Method
hf	-2.49	kJ/mol	Joback Method
hfus	32.49	kJ/mol	Joback Method
hvap	64.58	kJ/mol	Joback Method
log10ws	-4.68		Crippen Method
logp	3.712		Crippen Method
mcvol	204.630	ml/mol	McGowan Method
pc	2200.01	kPa	Joback Method
rinpol	2584.00		NIST Webbook
rinpol	2584.00		NIST Webbook
tb	682.43	K	Joback Method
tc	900.25	K	Joback Method
tf	424.12	K	Joback Method
vc	0.769	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	549.30	J/mol×K	682.43	Joback Method
cpg	565.44	J/mol×K	718.73	Joback Method
cpg	580.47	J/mol×K	755.04	Joback Method
cpg	594.49	J/mol×K	791.34	Joback Method
cpg	607.57	J/mol×K	827.64	Joback Method
cpg	619.80	J/mol×K	863.94	Joback Method
cpg	631.27	J/mol×K	900.25	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=U415712&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