1-Naphthamide, N-butyl-N-isobutyl-

Inchi: InChI=1S/C19H25NO/c1-4-5-13-20(14-15(2)3)19(21)18-12-8-10-16-9-6-7-11-17(16)18/h
InchiKey: TUYZTMZXHUIEGQ-UHFFFAOYSA-N
Formula: C19H25NO
SMILES: CCCCN(CC(C)C)C(=O)c1cccc2ccccc12
Mol. weight [g/mol]: 283.41

Physical Properties

Property code	Value	Unit	Source
gf	297.95	kJ/mol	Joback Method
hf	-69.69	kJ/mol	Joback Method
hfus	36.73	kJ/mol	Joback Method
hvap	70.87	kJ/mol	Joback Method
log10ws	-5.69		Crippen Method
logp	4.738		Crippen Method
mcvol	246.900	ml/mol	McGowan Method
pc	1718.88	kPa	Joback Method
rinpol	2844.00		NIST Webbook
tb	750.63	K	Joback Method
tc	962.89	K	Joback Method
tf	442.93	K	Joback Method
vc	0.931	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	713.80	J/mol×K	750.63	Joback Method
cpg	731.04	J/mol×K	786.01	Joback Method
cpg	747.17	J/mol×K	821.38	Joback Method
cpg	762.28	J/mol×K	856.76	Joback Method
cpg	776.46	J/mol×K	892.14	Joback Method
cpg	789.78	J/mol×K	927.52	Joback Method
cpg	802.34	J/mol×K	962.89	Joback Method

Sources

McGowan Method:	http://link.springer.com/article/10.1007/BF02311772
NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=U415715&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
rinpol:	Non-polar retention indices
tb:	Normal Boiling Point Temperature
tc:	Critical Temperature
tf:	Normal melting (fusion) point
vc:	Critical Volume