1-Naphthamide, N,N-dibutyl-

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

Physical Properties

Property code	Value	Unit	Source
gf	300.39	kJ/mol	Joback Method
hf	-64.41	kJ/mol	Joback Method
hfus	40.26	kJ/mol	Joback Method
hvap	71.25	kJ/mol	Joback Method
log10ws	-5.93		Crippen Method
logp	4.882		Crippen Method
mcvol	246.900	ml/mol	McGowan Method
pc	1707.53	kPa	Joback Method
rinpol	2194.00		NIST Webbook
rinpol	2194.00		NIST Webbook
tb	751.07	K	Joback Method
tc	960.05	K	Joback Method
tf	457.93	K	Joback Method
vc	0.938	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	713.27	J/mol×K	751.07	Joback Method
cpg	730.24	J/mol×K	785.90	Joback Method
cpg	746.14	J/mol×K	820.73	Joback Method
cpg	761.06	J/mol×K	855.56	Joback Method
cpg	775.08	J/mol×K	890.39	Joback Method
cpg	788.28	J/mol×K	925.22	Joback Method
cpg	800.75	J/mol×K	960.05	Joback Method

Sources

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=U308686&Units=SI
Crippen Method:	http://pubs.acs.org/doi/abs/10.1021/ci990307l
Crippen Method:	https://www.chemeo.com/doc/models/crippen_log10ws

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