1-Naphthamide, N-butyl-N-propyl-

Inchi: InChI=1S/C18H23NO/c1-3-5-14-19(13-4-2)18(20)17-12-8-10-15-9-6-7-11-16(15)17/h6-1
InchiKey: HGAOVEJMFKHIJE-UHFFFAOYSA-N
Formula: C18H23NO
SMILES: CCCCN(CCC)C(=O)c1cccc2ccccc12
Mol. weight [g/mol]: 269.38

Physical Properties

Property code	Value	Unit	Source
gf	291.97	kJ/mol	Joback Method
hf	-43.77	kJ/mol	Joback Method
hfus	37.67	kJ/mol	Joback Method
hvap	69.03	kJ/mol	Joback Method
log10ws	-5.51		Crippen Method
logp	4.492		Crippen Method
mcvol	232.810	ml/mol	McGowan Method
pc	1851.52	kPa	Joback Method
rinpol	2772.00		NIST Webbook
rinpol	2772.00		NIST Webbook
tb	728.19	K	Joback Method
tc	939.67	K	Joback Method
tf	446.66	K	Joback Method
vc	0.881	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	657.49	J/mol×K	728.19	Joback Method
cpg	674.22	J/mol×K	763.44	Joback Method
cpg	689.86	J/mol×K	798.68	Joback Method
cpg	704.52	J/mol×K	833.93	Joback Method
cpg	718.26	J/mol×K	869.17	Joback Method
cpg	731.17	J/mol×K	904.42	Joback Method
cpg	743.34	J/mol×K	939.67	Joback Method

Sources

McGowan Method:	http://link.springer.com/article/10.1007/BF02311772
NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=U415714&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

Latest version available from:

https://www.chemeo.com/cid/89-136-3/1-Naphthamide-N-butyl-N-propyl.pdf

Generated by Cheméo on 2024-10-12 04:59:00.766667952 +0000 UTC m=+3290003.403637201.

Cheméo (https://www.chemeo.com) is the biggest free database of chemical and physical data for the process industry.