1-Naphthamide, N-butyl-N-ethyl-

Inchi: InChI=1S/C17H21NO/c1-3-5-13-18(4-2)17(19)16-12-8-10-14-9-6-7-11-15(14)16/h6-12H,
InchiKey: CZIDBWOWWXWLOF-UHFFFAOYSA-N
Formula: C17H21NO
SMILES: CCCCN(CC)C(=O)c1cccc2ccccc12
Mol. weight [g/mol]: 255.35

Physical Properties

Property code	Value	Unit	Source
gf	283.55	kJ/mol	Joback Method
hf	-23.13	kJ/mol	Joback Method
hfus	35.08	kJ/mol	Joback Method
hvap	66.80	kJ/mol	Joback Method
log10ws	-5.09		Crippen Method
logp	4.102		Crippen Method
mcvol	218.720	ml/mol	McGowan Method
pc	2014.51	kPa	Joback Method
rinpol	2636.00		NIST Webbook
rinpol	2636.00		NIST Webbook
tb	705.31	K	Joback Method
tc	919.74	K	Joback Method
tf	435.39	K	Joback Method
vc	0.826	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	602.81	J/mol×K	705.31	Joback Method
cpg	619.26	J/mol×K	741.05	Joback Method
cpg	634.63	J/mol×K	776.79	Joback Method
cpg	648.98	J/mol×K	812.53	Joback Method
cpg	662.42	J/mol×K	848.27	Joback Method
cpg	675.01	J/mol×K	884.01	Joback Method
cpg	686.84	J/mol×K	919.74	Joback Method

Sources

NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=U415713&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