1-Naphthamide, N,N-bis(2-ethylhexyl)-

Inchi: InChI=1S/C27H41NO/c1-5-9-14-22(7-3)20-28(21-23(8-4)15-10-6-2)27(29)26-19-13-17-24
InchiKey: HEXQOTZBKVYKRW-UHFFFAOYSA-N
Formula: C27H41NO
SMILES: CCCCC(CC)CN(CC(CC)CCCC)C(=O)c1cccc2ccccc12
Mol. weight [g/mol]: 395.62

Physical Properties

Property code	Value	Unit	Source
gf	362.87	kJ/mol	Joback Method
hf	-240.09	kJ/mol	Joback Method
hfus	53.93	kJ/mol	Joback Method
hvap	88.29	kJ/mol	Joback Method
log10ws	-8.80		Crippen Method
logp	7.715		Crippen Method
mcvol	359.620	ml/mol	McGowan Method
pc	993.88	kPa	Joback Method
rinpol	2720.00		NIST Webbook
tb	933.23	K	Joback Method
tc	1145.92	K	Joback Method
tf	518.09	K	Joback Method
vc	1.373	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	1192.84	J/mol×K	933.23	Joback Method
cpg	1212.02	J/mol×K	968.68	Joback Method
cpg	1230.11	J/mol×K	1004.13	Joback Method
cpg	1247.25	J/mol×K	1039.57	Joback Method
cpg	1263.53	J/mol×K	1075.02	Joback Method
cpg	1279.07	J/mol×K	1110.47	Joback Method
cpg	1293.99	J/mol×K	1145.92	Joback Method

Sources

NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=U308690&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