1-Naphthamide, N,N-dinonyl-

Inchi: InChI=1S/C29H45NO/c1-3-5-7-9-11-13-17-24-30(25-18-14-12-10-8-6-4-2)29(31)28-23-1
InchiKey: OTWOJMLJDLPGGR-UHFFFAOYSA-N
Formula: C29H45NO
SMILES: CCCCCCCCCN(CCCCCCCCC)C(=O)c1cccc2ccccc12
Mol. weight [g/mol]: 423.67

Physical Properties

Property code	Value	Unit	Source
gf	384.59	kJ/mol	Joback Method
hf	-270.81	kJ/mol	Joback Method
hfus	66.16	kJ/mol	Joback Method
hvap	93.52	kJ/mol	Joback Method
log10ws	-10.12		Crippen Method
logp	8.783		Crippen Method
mcvol	387.800	ml/mol	McGowan Method
pc	875.32	kPa	Joback Method
rinpol	3313.00		NIST Webbook
rinpol	3313.00		NIST Webbook
tb	979.87	K	Joback Method
tc	1199.65	K	Joback Method
tf	570.63	K	Joback Method
vc	1.498	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	1318.98	J/mol×K	979.87	Joback Method
cpg	1339.09	J/mol×K	1016.50	Joback Method
cpg	1358.14	J/mol×K	1053.13	Joback Method
cpg	1376.26	J/mol×K	1089.76	Joback Method
cpg	1393.59	J/mol×K	1126.39	Joback Method
cpg	1410.25	J/mol×K	1163.02	Joback Method
cpg	1426.37	J/mol×K	1199.65	Joback Method

Sources

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
NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=U308693&Units=SI

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