1-Naphthamide

Other names:	1-Naphthylamide
	«alpha»-Naphthamide
	1-Naphthalenecarboxamide
Inchi:	InChI=1S/C11H9NO/c12-11(13)10-7-3-5-8-4-1-2-6-9(8)10/h1-7H,(H2,12,13)
InchiKey:	RMHJJUOPOWPRBP-UHFFFAOYSA-N
Formula:	C11H9NO
SMILES:	NC(=O)c1cccc2ccccc12
Mol. weight [g/mol]:	171.20
CAS:	2243-81-4

Physical Properties

Property code	Value	Unit	Source
gf	188.70	kJ/mol	Joback Method
hf	66.97	kJ/mol	Joback Method
hfus	21.71	kJ/mol	Joback Method
hvap	62.05	kJ/mol	Joback Method
log10ws	-3.45		Crippen Method
logp	1.939		Crippen Method
mcvol	134.180	ml/mol	McGowan Method
pc	3940.66	kPa	Joback Method
tb	628.12	K	Joback Method
tc	879.14	K	Joback Method
tf	418.56	K	Joback Method
vc	0.500	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	320.65	J/mol×K	628.12	Joback Method
cpg	332.73	J/mol×K	669.96	Joback Method
cpg	343.79	J/mol×K	711.79	Joback Method
cpg	353.93	J/mol×K	753.63	Joback Method
cpg	363.22	J/mol×K	795.47	Joback Method
cpg	371.75	J/mol×K	837.30	Joback Method

cpg	379.63	J/mol×K	879.14	Joback Method

Sources

McGowan Method:	http://link.springer.com/article/10.1007/BF02311772
NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=C2243814&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
tb:	Normal Boiling Point Temperature
tc:	Critical Temperature
tf:	Normal melting (fusion) point
vc:	Critical Volume