1-Naphthaleneacetamide

Other names:	«alpha»-Naphthaleneacetamide
	«alpha»-Naphthylacetamide
	Amid-Thin
	Amid-Thin W
	Dirigol N
	Frufix
	1-Naphthylacetamide
	2-(1-Naphthyl)acetamide
	«alpha»-Naphthaleneacetic acid amide
	NAAm
	Rootone
	Rosetone
	1-Naphthylamine, N-acetyl-
	Amid kyseliny 1-naftyloctove
	NSC 34862
Inchi:	InChI=1S/C12H11NO/c13-12(14)8-10-6-3-5-9-4-1-2-7-11(9)10/h1-7H,8H2,(H2,13,14)
InchiKey:	XFNJVKMNNVCYEK-UHFFFAOYSA-N
Formula:	C12H11NO
SMILES:	NC(=O)Cc1cccc2ccccc12
Mol. weight [g/mol]:	185.22
CAS:	86-86-2

Physical Properties

Property code	Value	Unit	Source
gf	197.12	kJ/mol	Joback Method
hf	46.33	kJ/mol	Joback Method
hfus	24.30	kJ/mol	Joback Method
hvap	64.27	kJ/mol	Joback Method
log10ws	-3.29		Crippen Method
logp	1.868		Crippen Method
mcvol	148.270	ml/mol	McGowan Method
pc	3505.43	kPa	Joback Method
tb	651.00	K	Joback Method
tc	896.44	K	Joback Method
tf	457.11 ± 0.20	K	NIST Webbook
vc	0.556	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	414.03	J/mol×K	814.63	Joback Method
cpg	423.26	J/mol×K	855.53	Joback Method
cpg	368.55	J/mol×K	651.00	Joback Method
cpg	381.38	J/mol×K	691.91	Joback Method
cpg	393.17	J/mol×K	732.81	Joback Method
cpg	404.03	J/mol×K	773.72	Joback Method
cpg	431.82	J/mol×K	896.44	Joback Method
hfust	32.82	kJ/mol	455.50	NIST Webbook
hfust	32.82	kJ/mol	455.50	NIST Webbook

Sources

McGowan Method: http://link.springer.com/article/10.1007/BF02311772
NIST Webbook: http://webbook.nist.gov/cgi/cbook.cgi?ID=C86862&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
hfust: Enthalpy of fusion at a given temperature
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