1-Naphthhydrazide

Other names:	1-Naphthhydrazide
	1-Naphthoic acid hydrazide
	1-Naphthalenecarboxylic acid, hydrazide
	Alpha-naphthoic-hydrazide
	1-naphthohydrazide
Inchi:	InChI=1S/C11H10N2O/c12-13-11(14)10-7-3-5-8-4-1-2-6-9(8)10/h1-7H,12H2,(H,13,14)
InchiKey:	VMFUMDXVTKTZQY-UHFFFAOYSA-N
Formula:	C11H10N2O
SMILES:	NNC(=O)c1cccc2ccccc12
Mol. weight [g/mol]:	186.21

Physical Properties

Property code	Value	Unit	Source
af	0.5955		Cheméo Relay (1.0)
hf	69.75	kJ/mol	Cheméo Relay (1.0)
hfus	26.81	kJ/mol	Joback Method
hvap	91.48	kJ/mol	Cheméo Relay (1.0)
ie	8.35	eV	Cheméo Relay (1.0)
log10ws	-2.54		Cheméo Relay (1.0)
logp	1.443		Crippen Method
mcvol	144.160	ml/mol	McGowan Method
pc	4005.77	kPa	Joback Method
tb	630.28	K	Cheméo Relay (1.0)
tc	940.63	K	Cheméo Relay (1.0)
tf	405.79	K	Cheméo Relay (1.0)
vc	0.511	m3/kmol	Cheméo Relay (1.0)

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	366.41	J/mol×K	678.29	Joback Method
cpg	378.12	J/mol×K	719.58	Joback Method
cpg	388.85	J/mol×K	760.87	Joback Method
cpg	398.69	J/mol×K	802.16	Joback Method

cpg	407.74	J/mol×K	843.45	Joback Method
cpg	416.07	J/mol×K	884.74	Joback Method
cpg	423.79	J/mol×K	926.03	Joback Method

Sources

Crippen Method:	http://pubs.acs.org/doi/abs/10.1021/ci990307l
Crippen Method:	https://www.chemeo.com/doc/models/crippen_log10ws
Cheméo Relay (1.0):	
Cheméo Relay (1.0, beta):	
NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=C43038455&Units=SI
Joback Method:	https://en.wikipedia.org/wiki/Joback_method
McGowan Method:	http://link.springer.com/article/10.1007/BF02311772

Legend

af:	Acentric Factor
cpg:	Ideal gas heat capacity
hf:	Enthalpy of formation at standard conditions
hfus:	Enthalpy of fusion at standard conditions
hvap:	Enthalpy of vaporization at standard conditions
ie:	Ionization energy
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