

«alpha»-Naphthoylhydrazine

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:	<chem>NNC(=O)c1cccc2ccccc12</chem>
Mol. weight [g/mol]:	186.21
CAS:	43038-45-5

Physical Properties

Property code	Value	Unit	Source
gf	278.09	kJ/mol	Joback Method
hf	120.44	kJ/mol	Joback Method
hfus	26.81	kJ/mol	Joback Method
hvap	68.48	kJ/mol	Joback Method
log10ws	-3.63		Crippen Method
logp	1.443		Crippen Method
mcvol	144.160	ml/mol	McGowan Method
pc	4005.77	kPa	Joback Method
tb	678.29	K	Joback Method
tc	926.03	K	Joback Method
tf	471.22	K	Joback Method
vc	0.535	m3/kmol	Joback Method

Temperature Dependent Properties

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

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=C43038455&Units=SI
Crippen Method:	http://pubs.acs.org/doi/abs/10.1021/ci990307l
Crippen Method:	https://www.chemeo.com/doc/models/crippen_log10ws

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

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