

2-Naphthalenecarboxylic acid, 3-hydroxy-, hydrazide

Other names:

2-Naphthoic acid, 3-hydroxy-, hydrazide
2-Hydroxy-3-naphthoic acid hydrazide
2-Hydroxy-3-naphthoylhydrazine
3-Hydroxy-2-naphthoic acid hydrazide
3-Hydroxy-2-naphthoylhydrazine
3-Hydroxy-2-naphthylhydrazide
3-Hydroxy-2-naphthohydrazide
NSC 2117
NSC 49198
2-Hydroxy-3-naphthoic hydrazide

InChI: InChI=1S/C11H10N2O2/c12-13-11(15)9-5-7-3-1-2-4-8(7)6-10(9)14/h1-6,14H,12H2,(H,13)

InchiKey: FDNAQCWUERCJBK-UHFFFAOYSA-N

Formula: C11H10N2O2

SMILES: NNC(=O)c1cc2cccc2cc1O

Mol. weight [g/mol]: 202.21

CAS: 5341-58-2

Physical Properties

Property code	Value	Unit	Source
gf	123.47	kJ/mol	Joback Method
hf	-56.87	kJ/mol	Joback Method
hfus	32.59	kJ/mol	Joback Method
hvap	81.50	kJ/mol	Joback Method
log10ws	-3.17		Crippen Method
logp	1.149		Crippen Method
mcvol	150.030	ml/mol	McGowan Method
pc	4883.38	kPa	Joback Method
tb	758.91	K	Joback Method
tc	1013.16	K	Joback Method
tf	582.94	K	Joback Method
vc	0.501	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	407.30	J/mol×K	758.91	Joback Method
cpg	417.33	J/mol×K	801.29	Joback Method
cpg	426.75	J/mol×K	843.66	Joback Method
cpg	435.71	J/mol×K	886.04	Joback Method
cpg	444.38	J/mol×K	928.41	Joback Method
cpg	452.90	J/mol×K	970.79	Joback Method
cpg	461.45	J/mol×K	1013.16	Joback Method

Sources

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=C5341582&Units=SI>

Crippen Method: <http://pubs.acs.org/doi/abs/10.1021/ci990307l>

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

Latest version available from:

<https://www.chemeo.com/cid/60-769-2/2-Naphthalenecarboxylic-acid-3-hydroxy-hydrazide.pdf>

Generated by Cheméo on 2024-04-09 20:32:02.154773995 +0000 UTC m=+14983971.075351310.

Cheméo (<https://www.chemeo.com>) is the biggest free database of chemical and physical data for the process industry.