

1-Naphthaleneacethydrazide

Other names:	2-(1-Naphthyl)acethydrazide
Inchi:	InChI=1S/C12H12N2O/c13-14-12(15)8-10-6-3-5-9-4-1-2-7-11(9)10/h1-7H,8,13H2,(H,14,
InchiKey:	FLHXVKZDKJAVMB-UHFFFAOYSA-N
Formula:	C12H12N2O
SMILES:	NNC(=O)Cc1cccc2ccccc12
Mol. weight [g/mol]:	200.24
CAS:	34800-90-3

Physical Properties

Property code	Value	Unit	Source
gf	286.51	kJ/mol	Joback Method
hf	99.80	kJ/mol	Joback Method
hfus	29.40	kJ/mol	Joback Method
hvap	70.71	kJ/mol	Joback Method
log10ws	-3.47		Crippen Method
logp	1.372		Crippen Method
mcvol	158.250	ml/mol	McGowan Method
pc	3560.02	kPa	Joback Method
tb	701.17	K	Joback Method
tc	943.58	K	Joback Method
tf	482.49	K	Joback Method
vc	0.592	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	416.08	J/molxK	701.17	Joback Method
cpg	428.43	J/molxK	741.57	Joback Method
cpg	439.79	J/molxK	781.97	Joback Method
cpg	450.26	J/molxK	822.38	Joback Method
cpg	459.92	J/molxK	862.78	Joback Method
cpg	468.87	J/molxK	903.18	Joback Method
cpg	477.20	J/molxK	943.58	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=C34800903&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

Latest version available from:

<https://www.chemeo.com/cid/56-646-3/1-Naphthaleneacethydrizide.pdf>

Generated by Cheméo on 2024-04-25 08:42:49.60036808 +0000 UTC m=+16323818.520945391.

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