

1-Naphthol, 1,2,3,4-tetrahydro-2-methyl-

Inchi:	InChI=1S/C11H14O/c1-8-6-7-9-4-2-3-5-10(9)11(8)12/h2-5,8,11-12H,6-7H2,1H3
InchiKey:	UMUJQRABWPODKX-UHFFFAOYSA-N
Formula:	C11H14O
SMILES:	CC1CCc2ccccc2C1O
Mol. weight [g/mol]:	162.23
CAS:	32281-70-2

Physical Properties

Property code	Value	Unit	Source
gf	48.64	kJ/mol	Joback Method
hf	-151.24	kJ/mol	Joback Method
hfus	19.09	kJ/mol	Joback Method
hvap	59.47	kJ/mol	Joback Method
log10ws	-2.87		Crippen Method
logp	2.302		Crippen Method
mcvol	137.100	ml/mol	McGowan Method
pc	3287.81	kPa	Joback Method
tb	581.26	K	Joback Method
tc	792.37	K	Joback Method
tf	323.67	K	Joback Method
vc	0.510	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	346.17	J/molxK	581.26	Joback Method
cpg	360.95	J/molxK	616.44	Joback Method
cpg	374.81	J/molxK	651.63	Joback Method
cpg	387.80	J/molxK	686.81	Joback Method
cpg	399.96	J/molxK	722.00	Joback Method
cpg	411.34	J/molxK	757.18	Joback Method
cpg	421.98	J/molxK	792.37	Joback Method
dvisc	0.0052481	Paxs	323.67	Joback Method
dvisc	0.0021258	Paxs	366.60	Joback Method

dvisc	0.0010407	Paxs	409.53	Joback Method
dvisc	0.0005834	Paxs	452.47	Joback Method
dvisc	0.0003616	Paxs	495.40	Joback Method
dvisc	0.0002419	Paxs	538.33	Joback Method
dvisc	0.0001717	Paxs	581.26	Joback Method

Sources

NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=C32281702&Units=SI
Crippen Method:	http://pubs.acs.org/doi/abs/10.1021/ci9903071
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

Legend

cpg:	Ideal gas heat capacity
dvisc:	Dynamic viscosity
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/44-821-1/1-Naphthol-1-2-3-4-tetrahydro-2-methyl.pdf>

Generated by Cheméo on 2024-04-29 10:22:36.303494901 +0000 UTC m=+16675405.224072218.

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