

# Naphthalene, 1,2,3,4-tetrahydro-1-nonyl-

<b>Inchi:</b>	InChI=1S/C19H30/c1-2-3-4-5-6-7-8-12-17-14-11-15-18-13-9-10-16-19(17)18/h9-10,13,16
<b>InchiKey:</b>	QMOFHSNOIHJCKA-UHFFFAOYSA-N
<b>Formula:</b>	C19H30
<b>SMILES:</b>	CCCCCCCCC1CCCc2ccccc21
<b>Mol. weight [g/mol]:</b>	258.44
<b>CAS:</b>	33425-49-9

## Physical Properties

Property code	Value	Unit	Source
gf	260.53	kJ/mol	Joback Method
hf	-143.79	kJ/mol	Joback Method
hfus	34.65	kJ/mol	Joback Method
hvap	60.91	kJ/mol	Joback Method
log10ws	-6.70		Crippen Method
logp	6.247		Crippen Method
mcvol	243.950	ml/mol	McGowan Method
pc	1512.85	kPa	Joback Method
tb	676.79	K	Joback Method
tc	877.60	K	Joback Method
tf	357.25	K	Joback Method
vc	0.941	m3/kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	699.40	J/molxK	676.79	Joback Method
cpg	720.51	J/molxK	710.26	Joback Method
cpg	740.41	J/molxK	743.73	Joback Method
cpg	759.17	J/molxK	777.20	Joback Method
cpg	776.84	J/molxK	810.66	Joback Method
cpg	793.50	J/molxK	844.13	Joback Method
cpg	809.20	J/molxK	877.60	Joback Method
dvisc	0.0022314	Paxs	357.25	Joback Method
dvisc	0.0011695	Paxs	410.51	Joback Method

dvisc	0.0007109	Paxs	463.76	Joback Method
dvisc	0.0004789	Paxs	517.02	Joback Method
dvisc	0.0003473	Paxs	570.28	Joback Method
dvisc	0.0002660	Paxs	623.53	Joback Method
dvisc	0.0002125	Paxs	676.79	Joback Method

## Sources

<b>NIST Webbook:</b>	<a href="http://webbook.nist.gov/cgi/cbook.cgi?ID=C33425499&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=C33425499&amp;Units=SI</a>
<b>Crippen Method:</b>	<a href="http://pubs.acs.org/doi/abs/10.1021/ci9903071">http://pubs.acs.org/doi/abs/10.1021/ci9903071</a>
<b>Crippen Method:</b>	<a href="https://www.chemeo.com/doc/models/crippen_log10ws">https://www.chemeo.com/doc/models/crippen_log10ws</a>
<b>Joback Method:</b>	<a href="https://en.wikipedia.org/wiki/Joback_method">https://en.wikipedia.org/wiki/Joback_method</a>
<b>McGowan Method:</b>	<a href="http://link.springer.com/article/10.1007/BF02311772">http://link.springer.com/article/10.1007/BF02311772</a>

## Legend

<b>cpg:</b>	Ideal gas heat capacity
<b>dvisc:</b>	Dynamic viscosity
<b>gf:</b>	Standard Gibbs free energy of formation
<b>hf:</b>	Enthalpy of formation at standard conditions
<b>hfus:</b>	Enthalpy of fusion at standard conditions
<b>hvap:</b>	Enthalpy of vaporization at standard conditions
<b>log10ws:</b>	Log10 of Water solubility in mol/l
<b>logp:</b>	Octanol/Water partition coefficient
<b>mcvol:</b>	McGowan's characteristic volume
<b>pc:</b>	Critical Pressure
<b>tb:</b>	Normal Boiling Point Temperature
<b>tc:</b>	Critical Temperature
<b>tf:</b>	Normal melting (fusion) point
<b>vc:</b>	Critical Volume

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