

# 1-nonylnaphthalene

<b>Inchi:</b>	InChI=1S/C19H26/c1-2-3-4-5-6-7-8-12-17-14-11-15-18-13-9-10-16-19(17)18/h9-11,13-16
<b>InchiKey:</b>	AZLNHMGSTZDDIY-UHFFFAOYSA-N
<b>Formula:</b>	C19H26
<b>SMILES:</b>	CCCCCCCCC1CCCC2CCCC12
<b>Mol. weight [g/mol]:</b>	254.41
<b>CAS:</b>	26438-26-6

## Physical Properties

Property code	Value	Unit	Source
gf	318.53	kJ/mol	Joback Method
hf	-19.36	kJ/mol	Joback Method
hfus	35.64	kJ/mol	Joback Method
hvap	62.47	kJ/mol	Joback Method
log10ws	-7.01		Crippen Method
logp	6.133		Crippen Method
mcvol	235.350	ml/mol	McGowan Method
pc	1624.60	kPa	Joback Method
tb	684.76	K	Joback Method
tc	889.58	K	Joback Method
tf	375.53	K	Joback Method
vc	0.913	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	650.31	J/molxK	684.76	Joback Method
cpg	733.25	J/molxK	855.44	Joback Method
cpg	718.57	J/molxK	821.30	Joback Method
cpg	703.01	J/molxK	787.17	Joback Method
cpg	686.49	J/molxK	753.03	Joback Method
cpg	668.95	J/molxK	718.90	Joback Method
cpg	747.11	J/molxK	889.58	Joback Method
dvisc	0.0001942	Paxs	684.76	Joback Method
dvisc	0.0002401	Paxs	633.22	Joback Method

dvisc	0.0003081	Paxs	581.68	Joback Method
dvisc	0.0004152	Paxs	530.14	Joback Method
dvisc	0.0005965	Paxs	478.61	Joback Method
dvisc	0.0009354	Paxs	427.07	Joback Method
dvisc	0.0016596	Paxs	375.53	Joback Method

## Sources

<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>
<b>NIST Webbook:</b>	<a href="http://webbook.nist.gov/cgi/cbook.cgi?ID=C26438266&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=C26438266&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>

## 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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