

# 1-N-DECYLNAPHTHALENE

<b>Inchi:</b>	InChI=1S/C20H38/c1-2-3-4-5-6-7-8-9-13-18-15-12-16-19-14-10-11-17-20(18)19/h18-20H
<b>InchiKey:</b>	UXUYVXLDWCOZRK-HUSUDBNBSA-N
<b>Formula:</b>	C20H38
<b>SMILES:</b>	CCCCCCCCCCC1CCCC2CCCCC12
<b>Mol. weight [g/mol]:</b>	268.44
<b>CAS:</b>	26438-27-7

## Physical Properties

Property code	Value	Unit	Source
gf	182.91	kJ/mol	Joback Method
hf	-355.51	kJ/mol	Joback Method
hfus	36.50	kJ/mol	Joback Method
hvap	60.32	kJ/mol	Joback Method
log10ws	-7.26		Crippen Method
logp	7.124		Crippen Method
mcvol	270.940	ml/mol	McGowan Method
pc	1265.55	kPa	Joback Method
tb	682.89	K	Joback Method
tc	875.44	K	Joback Method
tf	332.72	K	Joback Method
vc	1.036	m3/kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	830.69	J/molxK	682.89	Joback Method
cpg	855.77	J/molxK	714.98	Joback Method
cpg	879.46	J/molxK	747.07	Joback Method
cpg	901.84	J/molxK	779.16	Joback Method
cpg	922.94	J/molxK	811.25	Joback Method
cpg	942.84	J/molxK	843.34	Joback Method
cpg	961.58	J/molxK	875.44	Joback Method
dvisc	0.0036887	Paxs	332.72	Joback Method
dvisc	0.0016693	Paxs	391.08	Joback Method

dvisc	0.0009282	Paxs	449.44	Joback Method
dvisc	0.0005906	Paxs	507.81	Joback Method
dvisc	0.0004125	Paxs	566.17	Joback Method
dvisc	0.0003081	Paxs	624.53	Joback Method
dvisc	0.0002419	Paxs	682.89	Joback Method

## Sources

<b>Joback Method:</b>	<a href="https://en.wikipedia.org/wiki/Joback_method">https://en.wikipedia.org/wiki/Joback_method</a>
<b>KDB:</b>	<a href="https://www.chemic.org/research/kdb/hcprop/showprop.php?cmpid=815">https://www.chemic.org/research/kdb/hcprop/showprop.php?cmpid=815</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>Crippen Method:</b>	<a href="http://pubs.acs.org/doi/abs/10.1021/ci990307l">http://pubs.acs.org/doi/abs/10.1021/ci990307l</a>
<b>Crippen Method:</b>	<a href="https://www.chemeo.com/doc/models/crippen_log10ws">https://www.chemeo.com/doc/models/crippen_log10ws</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>mccvol:</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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