

# sec-hexadecylnaphthalene

<b>Inchi:</b>	InChI=1S/C26H40/c1-3-4-5-6-7-8-9-10-11-12-13-14-18-23(2)25-22-17-20-24-19-15-16-2
<b>InchiKey:</b>	YRKSLYAWOBZISP-UHFFFAOYSA-N
<b>Formula:</b>	C26H40
<b>SMILES:</b>	CCCCCCCCCCCCC(C)c1cccc2cccc12
<b>Mol. weight [g/mol]:</b>	352.60
<b>CAS:</b>	94247-63-9

## Physical Properties

Property code	Value	Unit	Source
gf	375.03	kJ/mol	Joback Method
hf	-169.12	kJ/mol	Joback Method
hfus	50.24	kJ/mol	Joback Method
hvap	77.66	kJ/mol	Joback Method
log10ws	-9.90		Crippen Method
logp	9.035		Crippen Method
mcvol	333.980	ml/mol	McGowan Method
pc	1011.02	kPa	Joback Method
tb	844.48	K	Joback Method
tc	1044.68	K	Joback Method
tf	439.42	K	Joback Method
vc	1.300	m3/kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	1063.18	J/molxK	844.48	Joback Method
cpg	1083.45	J/molxK	877.85	Joback Method
cpg	1102.61	J/molxK	911.21	Joback Method
cpg	1120.76	J/molxK	944.58	Joback Method
cpg	1137.98	J/molxK	977.95	Joback Method
cpg	1154.34	J/molxK	1011.32	Joback Method
cpg	1169.94	J/molxK	1044.68	Joback Method
dvisc	0.0012229	Paxs	439.42	Joback Method
dvisc	0.0005766	Paxs	506.93	Joback Method

dvisc	0.0003244	Paxs	574.44	Joback Method
dvisc	0.0002060	Paxs	641.95	Joback Method
dvisc	0.0001426	Paxs	709.46	Joback Method
dvisc	0.0001052	Paxs	776.97	Joback Method
dvisc	0.0000815	Paxs	844.48	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=C94247639&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=C94247639&amp;Units=SI</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>

## 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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