

# 1,7-di-iso-propylnaphthalene

<b>Other names:</b>	Naphthalene, 1,7-diisopropyl
<b>Inchi:</b>	InChI=1S/C16H20/c1-11(2)14-9-8-13-6-5-7-15(12(3)4)16(13)10-14/h5-12H,1-4H3
<b>InchiKey:</b>	XNSUVOOWWSAQMZ-UHFFFAOYSA-N
<b>Formula:</b>	C16H20
<b>SMILES:</b>	CC(C)c1ccc2cccc(C(C)C)c2c1
<b>Mol. weight [g/mol]:</b>	212.33

## Physical Properties

Property code	Value	Unit	Source
gf	278.76	kJ/mol	Joback Method
hf	20.53	kJ/mol	Joback Method
hfus	20.43	kJ/mol	Joback Method
hvap	55.67	kJ/mol	Joback Method
log10ws	-5.65		Crippen Method
logp	5.087		Crippen Method
mcvol	193.080	ml/mol	McGowan Method
pc	2081.22	kPa	Joback Method
rinpol	1667.00		NIST Webbook
rinpol	1667.00		NIST Webbook
ripol	2178.00		NIST Webbook
ripol	2154.00		NIST Webbook
ripol	2178.00		NIST Webbook
tb	620.22	K	Joback Method
tc	844.42	K	Joback Method
tf	324.24	K	Joback Method
vc	0.734	m3/kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	490.58	J/molxK	620.22	Joback Method
cpg	570.80	J/molxK	807.05	Joback Method
cpg	556.83	J/molxK	769.68	Joback Method
cpg	541.89	J/molxK	732.32	Joback Method

cpg	525.92	J/mol×K	694.95	Joback Method
cpg	508.84	J/mol×K	657.59	Joback Method
cpg	583.89	J/mol×K	844.42	Joback Method
dvisc	0.0002140	Paxs	620.22	Joback Method
dvisc	0.0002647	Paxs	570.89	Joback Method
dvisc	0.0003409	Paxs	521.56	Joback Method
dvisc	0.0004627	Paxs	472.23	Joback Method
dvisc	0.0006746	Paxs	422.90	Joback Method
dvisc	0.0010863	Paxs	373.57	Joback Method
dvisc	0.0020223	Paxs	324.24	Joback Method

## Sources

<b>Crippen Method:</b>	<a href="http://pubs.acs.org/doi/abs/10.1021/ci990307I">http://pubs.acs.org/doi/abs/10.1021/ci990307I</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>
<b>NIST Webbook:</b>	<a href="http://webbook.nist.gov/cgi/cbook.cgi?ID=U374061&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=U374061&amp;Units=SI</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>rinpol:</b>	Non-polar retention indices
<b>ripol:</b>	Polar retention indices
<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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