

# Naphthalene, decahydro-, 2,2'-bis

<b>Inchi:</b>	InChI=1S/C20H34/c1-3-7-17-13-19(11-9-15(17)5-1)20-12-10-16-6-2-4-8-18(16)14-20/h1
<b>InchiKey:</b>	JZMIQSLLYUOJLU-UHFFFAOYSA-N
<b>Formula:</b>	C20H34
<b>SMILES:</b>	C1CCC2CC(C3CCC4CCCCC4C3)CCC2C1
<b>Mol. weight [g/mol]:</b>	274.48

## Physical Properties

Property code	Value	Unit	Source
gf	248.30	kJ/mol	Joback Method
hf	-254.89	kJ/mol	Joback Method
hfus	25.44	kJ/mol	Joback Method
hvap	60.52	kJ/mol	Joback Method
log10ws	-6.32		Crippen Method
logp	6.199		Crippen Method
mcvol	249.220	ml/mol	McGowan Method
pc	1620.68	kPa	Joback Method
rinsol	2317.00		NIST Webbook
tb	708.78	K	Joback Method
tc	952.30	K	Joback Method
tf	350.28	K	Joback Method
vc	0.917	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	821.81	J/molxK	708.78	Joback Method
cpg	852.99	J/molxK	749.37	Joback Method
cpg	881.78	J/molxK	789.95	Joback Method
cpg	908.31	J/molxK	830.54	Joback Method
cpg	932.72	J/molxK	871.13	Joback Method
cpg	955.14	J/molxK	911.71	Joback Method
cpg	975.69	J/molxK	952.30	Joback Method
dvisc	0.0044172	Paxs	350.28	Joback Method
dvisc	0.0025276	Paxs	410.03	Joback Method

dvisc	0.0016670	Paxs	469.78	Joback Method
dvisc	0.0012077	Paxs	529.53	Joback Method
dvisc	0.0009341	Paxs	589.28	Joback Method
dvisc	0.0007574	Paxs	649.03	Joback Method
dvisc	0.0006363	Paxs	708.78	Joback Method

## Sources

<b>NIST Webbook:</b>	<a href="http://webbook.nist.gov/cgi/cbook.cgi?ID=R481&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=R481&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>rinpol:</b>	Non-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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