

# Naphthalene, 1,1'-methylenebis-

<b>Inchi:</b>	InChI=1S/C21H16/c1-3-13-20-16(7-1)9-5-11-18(20)15-19-12-6-10-17-8-2-4-14-21(17)19
<b>InchiKey:</b>	ZMESHQOXZMOOQQ-UHFFFAOYSA-N
<b>Formula:</b>	C21H16
<b>SMILES:</b>	c1ccc2c(Cc3cccc4ccccc34)cccc2c1
<b>Mol. weight [g/mol]:</b>	268.35
<b>CAS:</b>	607-50-1

## Physical Properties

Property code	Value	Unit	Source
gf	544.80	kJ/mol	Joback Method
hf	355.49	kJ/mol	Joback Method
hfus	31.49	kJ/mol	Joback Method
hvap	71.50	kJ/mol	Joback Method
log10ws	-7.18		Crippen Method
logp	5.584		Crippen Method
mcvol	220.310	ml/mol	McGowan Method
pc	2241.88	kPa	Joback Method
tb	781.16	K	Joback Method
tc	1044.84	K	Joback Method
tf	382.00 ± 3.00	K	NIST Webbook
vc	0.840	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	607.05	J/mol×K	781.16	Joback Method
cpg	678.29	J/mol×K	1000.89	Joback Method
cpg	665.73	J/mol×K	956.95	Joback Method
cpg	652.54	J/mol×K	913.00	Joback Method
cpg	638.49	J/mol×K	869.05	Joback Method
cpg	623.40	J/mol×K	825.11	Joback Method
cpg	690.41	J/mol×K	1044.84	Joback Method
dvisc	0.0003212	Paxs	781.16	Joback Method
dvisc	0.0003735	Paxs	729.25	Joback Method

dvisc	0.0004446	Paxs	677.34	Joback Method
dvisc	0.0005447	Paxs	625.44	Joback Method
dvisc	0.0006923	Paxs	573.53	Joback Method
dvisc	0.0009229	Paxs	521.62	Joback Method
dvisc	0.0013110	Paxs	469.71	Joback Method

## Sources

<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>
<b>NIST Webbook:</b>	<a href="http://webbook.nist.gov/cgi/cbook.cgi?ID=C607501&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=C607501&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>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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