

# 1,1'-Biphenyl, 2,6-dimethyl-

<b>Inchi:</b>	InChI=1S/C14H14/c1-11-7-6-8-12(2)14(11)13-9-4-3-5-10-13/h3-10H,1-2H3
<b>InchiKey:</b>	BGXRAGCQZCSMOT-UHFFFAOYSA-N
<b>Formula:</b>	C14H14
<b>SMILES:</b>	Cc1cccc(C)c1-c1cccc1
<b>Mol. weight [g/mol]:</b>	182.26
<b>CAS:</b>	3976-34-9

## Physical Properties

Property code	Value	Unit	Source
gf	272.56	kJ/mol	Joback Method
hf	117.83	kJ/mol	Joback Method
hfus	19.32	kJ/mol	Joback Method
hvap	52.63	kJ/mol	Joback Method
log10ws	-5.03		Crippen Method
logp	3.970		Crippen Method
mcvol	160.600	ml/mol	McGowan Method
pc	2684.64	kPa	Joback Method
rinpol	1477.00		NIST Webbook
rinpol	1465.00		NIST Webbook
rinpol	1465.00		NIST Webbook
ripol	1983.00		NIST Webbook
ripol	1948.00		NIST Webbook
tb	535.70	K	NIST Webbook
tb	536.00 ± 5.00	K	NIST Webbook
tc	824.77	K	Joback Method
tf	268.00 ± 3.00	K	NIST Webbook
vc	0.604	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	371.85	J/mol×K	583.04	Joback Method
cpg	388.95	J/mol×K	623.33	Joback Method
cpg	404.83	J/mol×K	663.62	Joback Method

cpg	419.57	J/molxK	703.90	Joback Method
cpg	433.22	J/molxK	744.19	Joback Method
cpg	445.84	J/molxK	784.48	Joback Method
cpg	457.50	J/molxK	824.77	Joback Method
dvisc	0.0014925	Paxs	325.42	Joback Method
dvisc	0.0008435	Paxs	368.36	Joback Method
dvisc	0.0005371	Paxs	411.29	Joback Method
dvisc	0.0003724	Paxs	454.23	Joback Method
dvisc	0.0002751	Paxs	497.17	Joback Method
dvisc	0.0002132	Paxs	540.10	Joback Method
dvisc	0.0001716	Paxs	583.04	Joback Method

## Pressure Dependent Properties

Property code	Value	Unit	Pressure [kPa]	Source
tbrp	405.20	K	2.10	NIST Webbook

## Sources

<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=C3976349&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=C3976349&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>
<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>

## 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>tbrp:</b>	Boiling point at reduced pressure
<b>tc:</b>	Critical Temperature
<b>tf:</b>	Normal melting (fusion) point
<b>vc:</b>	Critical Volume

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