

# 1,1'-Biphenyl, 4-ethenyl-

<b>Other names:</b>	Biphenyl, 4-vinyl- p-Phenylstyrene 4-Phenylstyrene p-Vinylbiphenyl 4-Vinylbiphenyl 4-Vinyldiphenyl 4-Ethenyl-1,1'-biphenyl
<b>Inchi:</b>	InChI=1S/C14H12/c1-2-12-8-10-14(11-9-12)13-6-4-3-5-7-13/h2-11H,1H2
<b>InchiKey:</b>	HDBWAWNLGGMZRQ-UHFFFAOYSA-N
<b>Formula:</b>	C14H12
<b>SMILES:</b>	<chem>C=Cc1ccc(-c2ccccc2)cc1</chem>
<b>Mol. weight [g/mol]:</b>	180.25
<b>CAS:</b>	2350-89-2

## Physical Properties

Property code	Value	Unit	Source
gf	370.03	kJ/mol	Joback Method
hf	254.73	kJ/mol	Joback Method
hfus	18.43	kJ/mol	Joback Method
hvap	51.30	kJ/mol	Joback Method
log10ws	-4.90		Crippen Method
logp	3.997		Crippen Method
mcvol	156.300	ml/mol	McGowan Method
pc	2850.52	kPa	Joback Method
rinpol	275.90		NIST Webbook
rinpol	270.50		NIST Webbook
rinpol	270.60		NIST Webbook
rinpol	270.50		NIST Webbook
rinpol	275.60		NIST Webbook
rinpol	275.70		NIST Webbook
rinpol	275.70		NIST Webbook
tb	574.74	K	Joback Method
tc	820.92	K	Joback Method
tf	391.00 ± 5.00	K	NIST Webbook
tf	392.00 ± 4.00	K	NIST Webbook
vc	0.585	m <sup>3</sup> /kmol	Joback Method

# Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	351.88	J/molxK	574.74	Joback Method
cpg	368.61	J/molxK	615.77	Joback Method
cpg	384.04	J/molxK	656.80	Joback Method
cpg	398.24	J/molxK	697.83	Joback Method
cpg	411.30	J/molxK	738.86	Joback Method
cpg	423.30	J/molxK	779.89	Joback Method
cpg	434.32	J/molxK	820.92	Joback Method
dvisc	0.0018447	Paxs	311.14	Joback Method
dvisc	0.0009845	Paxs	355.07	Joback Method
dvisc	0.0006033	Paxs	399.01	Joback Method
dvisc	0.0004074	Paxs	442.94	Joback Method
dvisc	0.0002954	Paxs	486.87	Joback Method
dvisc	0.0002258	Paxs	530.81	Joback Method
dvisc	0.0001799	Paxs	574.74	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=C2350892&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=C2350892&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>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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