

# 4,4'-Diiododiphenyl

<b>Other names:</b>	1,1'-Biphenyl, 4,4'-diiodo-Biphenyl, 4,4'-diiodo 4,4'-diiodobiphenyl
<b>Inchi:</b>	InChI=1S/C12H8I2/c13-11-5-1-9(2-6-11)10-3-7-12(14)8-4-10/h1-8H
<b>InchiKey:</b>	GPYDMVZCPRONLW-UHFFFAOYSA-N
<b>Formula:</b>	C12H8I2
<b>SMILES:</b>	Ic1ccc(-c2ccc(I)cc2)cc1
<b>Mol. weight [g/mol]:</b>	406.00
<b>CAS:</b>	3001-15-8

## Physical Properties

Property code	Value	Unit	Source
gf	371.96	kJ/mol	Joback Method
hf	312.85	kJ/mol	Joback Method
hfus	22.95	kJ/mol	Joback Method
hvap	66.93	kJ/mol	Joback Method
log10ws	-6.37		Crippen Method
logp	4.563		Crippen Method
mcvol	184.060	ml/mol	McGowan Method
pc	3149.09	kPa	Joback Method
tb	723.56	K	Joback Method
tc	1038.07	K	Joback Method
tf	419.00	K	Joback Method
vc	0.667	m3/kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	363.44	J/molxK	723.56	Joback Method
cpg	375.17	J/molxK	775.98	Joback Method
cpg	385.67	J/molxK	828.40	Joback Method
cpg	395.11	J/molxK	880.82	Joback Method
cpg	403.68	J/molxK	933.24	Joback Method
cpg	411.57	J/molxK	985.66	Joback Method

cpg	418.95	J/mol×K	1038.07	Joback Method
dvisc	0.0014121	Paxs	419.00	Joback Method
dvisc	0.0008183	Paxs	469.76	Joback Method
dvisc	0.0005275	Paxs	520.52	Joback Method
dvisc	0.0003676	Paxs	571.28	Joback Method
dvisc	0.0002717	Paxs	622.04	Joback Method
dvisc	0.0002102	Paxs	672.80	Joback Method
dvisc	0.0001686	Paxs	723.56	Joback Method

## Sources

<b>NIST Webbook:</b>	<a href="http://webbook.nist.gov/cgi/cbook.cgi?ID=C3001158&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=C3001158&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>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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