

# p-Iodophenyl phenyl ether

<b>Other names:</b>	Benzene, 1,1'-oxybis(4-iodo- Bis(p-iodophenyl) ether Ether, bis(p-iodophenyl) 4-Iododiphenyl ether 4,4'-Diiiododiphenyl ether
<b>Inchi:</b>	InChI=1S/C12H9IO/c13-10-6-8-12(9-7-10)14-11-4-2-1-3-5-11/h1-9H
<b>InchiKey:</b>	BDKOUDYNKRCDEC-UHFFFAOYSA-N
<b>Formula:</b>	C12H8I2O
<b>SMILES:</b>	Ic1ccc(Oc2ccccc2)cc1
<b>Mol. weight [g/mol]:</b>	422.00
<b>CAS:</b>	28896-49-3

## Physical Properties

Property code	Value	Unit	Source
gf	218.47	kJ/mol	Joback Method
hf	115.23	kJ/mol	Joback Method
hfus	20.12	kJ/mol	Joback Method
hvap	59.30	kJ/mol	Joback Method
log10ws	-4.25		Crippen Method
logp	4.083		Crippen Method
mcvol	164.110	ml/mol	McGowan Method
pc	3220.98	kPa	Joback Method
tb	647.86	K	Joback Method
tc	925.90	K	Joback Method
tf	370.65	K	Joback Method
vc	0.598	m3/kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	349.42	J/molxK	647.86	Joback Method
cpg	363.19	J/molxK	694.20	Joback Method
cpg	375.68	J/molxK	740.54	Joback Method
cpg	386.97	J/molxK	786.88	Joback Method

cpg	397.16	J/molxK	833.22	Joback Method
cpg	406.33	J/molxK	879.56	Joback Method
cpg	414.57	J/molxK	925.90	Joback Method
dvisc	0.0015233	Paxs	370.65	Joback Method
dvisc	0.0008544	Paxs	416.85	Joback Method
dvisc	0.0005379	Paxs	463.05	Joback Method
dvisc	0.0003683	Paxs	509.25	Joback Method
dvisc	0.0002686	Paxs	555.46	Joback Method
dvisc	0.0002056	Paxs	601.66	Joback Method
dvisc	0.0001635	Paxs	647.86	Joback Method

## Sources

<b>NIST Webbook:</b>	<a href="http://webbook.nist.gov/cgi/cbook.cgi?ID=C28896493&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=C28896493&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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