

2,2'-Diiodobiphenyl

Inchi:	InChI=1S/C12H8I2/c13-11-7-3-1-5-9(11)10-6-2-4-8-12(10)14/h1-8H
InchiKey:	OZVRXSGTNWILMN-UHFFFAOYSA-N
Formula:	C12H8I2
SMILES:	Ic1ccccc1-c1ccccc1
Mol. weight [g/mol]:	406.00
CAS:	2236-52-4

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	m ³ /kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	363.44	J/molxK	723.56	Joback Method
cpg	411.57	J/molxK	985.66	Joback Method
cpg	403.68	J/molxK	933.24	Joback Method
cpg	395.11	J/molxK	880.82	Joback Method
cpg	385.67	J/molxK	828.40	Joback Method
cpg	375.17	J/molxK	775.98	Joback Method
cpg	418.95	J/molxK	1038.07	Joback Method
dvisc	0.0001686	Paxs	723.56	Joback Method
dvisc	0.0002102	Paxs	672.80	Joback Method

dvisc	0.0002717	Paxs	622.04	Joback Method
dvisc	0.0003676	Paxs	571.28	Joback Method
dvisc	0.0005275	Paxs	520.52	Joback Method
dvisc	0.0008183	Paxs	469.76	Joback Method
dvisc	0.0014121	Paxs	419.00	Joback Method

Sources

Joback Method:	https://en.wikipedia.org/wiki/Joback_method
McGowan Method:	http://link.springer.com/article/10.1007/BF02311772
NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=C2236524&Units=SI
Crippen Method:	http://pubs.acs.org/doi/abs/10.1021/ci9903071
Crippen Method:	https://www.chemeo.com/doc/models/crippen_log10ws

Legend

cpg:	Ideal gas heat capacity
dvisc:	Dynamic viscosity
gf:	Standard Gibbs free energy of formation
hf:	Enthalpy of formation at standard conditions
hfus:	Enthalpy of fusion at standard conditions
hvap:	Enthalpy of vaporization at standard conditions
log10ws:	Log10 of Water solubility in mol/l
logp:	Octanol/Water partition coefficient
mcvol:	McGowan's characteristic volume
pc:	Critical Pressure
tb:	Normal Boiling Point Temperature
tc:	Critical Temperature
tf:	Normal melting (fusion) point
vc:	Critical Volume

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