

Benzene, 1-iodo-4-(2-phenylethyl)-

Other names:	Bibenzyl, 4-iodo-1-iodo-4-(2-phenylethyl)benzene 1-(4-Iodophenyl)-2-phenylethane
Inchi:	InChI=1S/C14H13I/c15-14-10-8-13(9-11-14)7-6-12-4-2-1-3-5-12/h1-5,8-11H,6-7H2
InchiKey:	CTNREHGTZZBQM-UHFFFAOYSA-N
Formula:	C14H13I
SMILES:	Ic1ccc(CCc2ccccc2)cc1
Mol. weight [g/mol]:	308.16
CAS:	14310-25-9

Physical Properties

Property code	Value	Unit	Source
gf	340.31	kJ/mol	Joback Method
hf	206.17	kJ/mol	Joback Method
hfus	24.11	kJ/mol	Joback Method
hvap	61.34	kJ/mol	Joback Method
ie	8.70 ± 0.10	eV	NIST Webbook
log10ws	-5.04		Crippen Method
logp	4.076		Crippen Method
mcvol	186.420	ml/mol	McGowan Method
pc	2665.27	kPa	Joback Method
tb	671.20	K	Joback Method
tc	940.53	K	Joback Method
tf	370.96	K	Joback Method
vc	0.692	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	423.89	J/mol×K	671.20	Joback Method
cpg	488.91	J/mol×K	895.65	Joback Method
cpg	478.15	J/mol×K	850.76	Joback Method
cpg	466.40	J/mol×K	805.87	Joback Method
cpg	453.52	J/mol×K	760.98	Joback Method

cpg	439.39	J/mol×K	716.09	Joback Method
cpg	498.77	J/mol×K	940.53	Joback Method
dvisc	0.0001672	Pa×s	671.20	Joback Method
dvisc	0.0002126	Pa×s	621.16	Joback Method
dvisc	0.0002819	Pa×s	571.12	Joback Method
dvisc	0.0003945	Pa×s	521.08	Joback Method
dvisc	0.0005931	Pa×s	471.04	Joback Method
dvisc	0.0009824	Pa×s	421.00	Joback Method
dvisc	0.0018644	Pa×s	370.96	Joback Method

Sources

Crippen Method:	https://www.chemeo.com/doc/models/crippen_log10ws
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=C14310259&Units=SI
Crippen Method:	http://pubs.acs.org/doi/abs/10.1021/ci990307l

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
ie:	Ionization energy
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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