

Iodobenzene diacetate

Other names:	Iodosobenzene diacetate (Diacetoxyiodo)benzene Iodine, bis(acetato-O)phenyl- Benzene, (diacetoxyiodo)- Benzene, iodoso-, diacetate Bis(acetato)phenyliodine Phenyliodine diacetate Phenyliodo diacetate Phenyliodoso acetate Phenyliodoso diacetate Benzene, (dihydroxyiodo)-, diacetate NSC 23801 Phenyliodine(III) diacetate Phenyliodosyl diacetate bis(acetato-O)phenyliodine
Inchi:	InChI=1S/C10H11IO4/c1-8(12)14-11(15-9(2)13)10-6-4-3-5-7-10/h3-7H,1-2H3
InchiKey:	ZBIKORITPGTTGI-UHFFFAOYSA-N
Formula:	C10H11IO4
SMILES:	CC(=O)O[IH2](OC(C)=O)c1ccccc1
Mol. weight [g/mol]:	322.10
CAS:	3240-34-4

Physical Properties

Property code	Value	Unit	Source
gf	-368.75	kJ/mol	Joback Method
hf	-537.55	kJ/mol	Joback Method
hfus	22.31	kJ/mol	Joback Method
hvap	68.11	kJ/mol	Joback Method
log10ws	-2.61		Crippen Method
logp	1.783		Crippen Method
mcvol	177.300	ml/mol	McGowan Method
pc	2687.42	kPa	Joback Method
tb	702.00	K	Joback Method
tc	952.58	K	Joback Method
tf	398.52	K	Joback Method
vc	0.641	m ³ /kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	407.92	J/molxK	702.00	Joback Method
cpg	461.23	J/molxK	910.82	Joback Method
cpg	453.25	J/molxK	869.06	Joback Method
cpg	443.86	J/molxK	827.29	Joback Method
cpg	433.12	J/molxK	785.53	Joback Method
cpg	421.11	J/molxK	743.76	Joback Method
cpg	467.72	J/molxK	952.58	Joback Method
dvisc	0.0000283	Paxs	702.00	Joback Method
dvisc	0.0000407	Paxs	651.42	Joback Method
dvisc	0.0000622	Paxs	600.84	Joback Method
dvisc	0.0001029	Paxs	550.26	Joback Method
dvisc	0.0001883	Paxs	499.68	Joback Method
dvisc	0.0003950	Paxs	449.10	Joback Method
dvisc	0.0009996	Paxs	398.52	Joback Method

Sources

Crippen Method:	http://pubs.acs.org/doi/abs/10.1021/ci9903071
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=C3240344&Units=SI

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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