

Benzoic acid, 2-hydroxy-3,5-diiodo-

Other names:	2-Hydroxy-3,5-diiodobenzenecarboxylic acid 2-Hydroxy-3,5-diiodobenzoate 2-Hydroxy-3,5-diiodobenzoic acid 3,5-Diiodo-2-hydroxybenzoic acid 3,5-Diiodosalicylic acid Benzoic acid, 3,5-diiodo-2-hydroxy- NSC 6303 Salicylic acid, 3,5-diiodo-
Inchi:	InChI=1S/C7H4I2O3/c8-3-1-4(7(11)12)6(10)5(9)2-3/h1-2,10H,(H,11,12)
InchiKey:	DHZVWQPHNWDCFS-UHFFFAOYSA-N
Formula:	C7H4I2O3
SMILES:	O=C(O)c1cc(I)cc(I)c1O
Mol. weight [g/mol]:	389.91
CAS:	133-91-5

Physical Properties

Property code	Value	Unit	Source
gf	-202.91	kJ/mol	Joback Method
hf	-262.60	kJ/mol	Joback Method
hfus	27.43	kJ/mol	Joback Method
hvap	89.96	kJ/mol	Joback Method
log10ws	-3.31		Aqueous Solubility Prediction Method
logp	2.300		Crippen Method
mcvol	150.680	ml/mol	McGowan Method
pc	5661.74	kPa	Joback Method
tb	809.15	K	Joback Method
tc	1079.41	K	Joback Method
tf	506.40	K	Aqueous Solubility Prediction Method
vc	0.486	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
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cpg	282.46	J/molxK	809.15	Joback Method
cpg	287.54	J/molxK	854.19	Joback Method
cpg	292.57	J/molxK	899.24	Joback Method
cpg	297.67	J/molxK	944.28	Joback Method
cpg	303.00	J/molxK	989.32	Joback Method
cpg	308.70	J/molxK	1034.37	Joback Method
cpg	314.91	J/molxK	1079.41	Joback Method
dvisc	0.0000951	Paxs	558.70	Joback Method
dvisc	0.0000446	Paxs	600.44	Joback Method
dvisc	0.0000230	Paxs	642.18	Joback Method
dvisc	0.0000129	Paxs	683.92	Joback Method
dvisc	0.0000077	Paxs	725.67	Joback Method
dvisc	0.0000049	Paxs	767.41	Joback Method
dvisc	0.0000033	Paxs	809.15	Joback Method

Sources

Crippen Method:

<http://pubs.acs.org/doi/abs/10.1021/ci9903071>

Joback Method:

https://en.wikipedia.org/wiki/Joback_method

Aqueous Solubility Prediction Method:

<http://onschallenge.wikispaces.com/file/view/AqueousDataset002.xlsx/351826032/AqueousDataset002.xlsx>

McGowan Method:

<http://link.springer.com/article/10.1007/BF02311772>

NIST Webbook:

<http://webbook.nist.gov/cgi/cbook.cgi?ID=C133915&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
mccvol:	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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