

# 4-[3-(4-hydroxyphenyl)-1,1-dioxobenzo[c]oxathiol

<b>Inchi:</b>	InChI=1S/C19H14O5S/c20-15-9-5-13(6-10-15)19(14-7-11-16(21)12-8-14)17-3-1-2-4-18(
<b>InchiKey:</b>	BELBBZDIHDAJOR-UHFFFAOYSA-N
<b>Formula:</b>	C19H14O5S
<b>SMILES:</b>	O=S1(=O)OC(c2ccc(O)cc2)(c2ccc(O)cc2)c2ccccc21
<b>Mol. weight [g/mol]:</b>	354.38

## Physical Properties

Property code	Value	Unit	Source
gf	-365.20	kJ/mol	Joback Method
hf	-585.91	kJ/mol	Joback Method
hfus	48.99	kJ/mol	Joback Method
hvap	112.31	kJ/mol	Joback Method
log10ws	-3.07		Aqueous Solubility Prediction Method
logp	3.109		Crippen Method
mcvol	242.130	ml/mol	McGowan Method
pc	4640.32	kPa	Joback Method
tb	941.14	K	Joback Method
tc	1215.23	K	Joback Method
tf	775.13	K	Joback Method
vc	0.801	m3/kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	736.88	J/molxK	941.14	Joback Method
cpg	755.66	J/molxK	986.82	Joback Method
cpg	775.97	J/molxK	1032.50	Joback Method
cpg	798.33	J/molxK	1078.19	Joback Method
cpg	823.24	J/molxK	1123.87	Joback Method
cpg	851.21	J/molxK	1169.55	Joback Method
cpg	882.77	J/molxK	1215.23	Joback Method

# Sources

<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>Joback Method:</b>	<a href="https://en.wikipedia.org/wiki/Joback_method">https://en.wikipedia.org/wiki/Joback_method</a>
<b>Aqueous Solubility Prediction Method:</b>	<a href="http://onschallenge.wikispaces.com/file/view/AqueousDataset002.xlsx/351826032/AqueousDa">http://onschallenge.wikispaces.com/file/view/AqueousDataset002.xlsx/351826032/AqueousDa</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>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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