

# O,o'-sulfonyl dibenzoic acid

<b>Inchi:</b>	InChI=1S/C14H10O6S/c15-13(16)9-5-1-3-7-11(9)21(19,20)12-8-4-2-6-10(12)14(17)18/h
<b>InchiKey:</b>	AOFRNZNXMCOXHP-UHFFFAOYSA-N
<b>Formula:</b>	C14H10O6S
<b>SMILES:</b>	O=C(O)c1ccccc1S(=O)(=O)c1ccccc1C(=O)O
<b>Mol. weight [g/mol]:</b>	306.29
<b>CAS:</b>	22219-00-7

## Physical Properties

Property code	Value	Unit	Source
gf	-727.46	kJ/mol	Joback Method
hf	-865.14	kJ/mol	Joback Method
hfus	42.07	kJ/mol	Joback Method
hvap	118.12	kJ/mol	Joback Method
log10ws	-2.96		Crippen Method
logp	1.916		Crippen Method
mcvol	203.570	ml/mol	McGowan Method
pc	4659.34	kPa	Joback Method
tb	922.92	K	Joback Method
tc	1142.54	K	Joback Method
tf	585.48	K	Joback Method
vc	0.779	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	570.27	J/mol×K	922.92	Joback Method
cpg	576.87	J/mol×K	959.52	Joback Method
cpg	582.53	J/mol×K	996.13	Joback Method
cpg	587.29	J/mol×K	1032.73	Joback Method
cpg	591.15	J/mol×K	1069.33	Joback Method
cpg	594.17	J/mol×K	1105.93	Joback Method
cpg	596.35	J/mol×K	1142.54	Joback Method

# Sources

<b>Crippen Method:</b>	<a href="https://www.chemeo.com/doc/models/crippen_log10ws">https://www.chemeo.com/doc/models/crippen_log10ws</a>
<b>Joback Method:</b>	<a href="https://en.wikipedia.org/wiki/Joback_method">https://en.wikipedia.org/wiki/Joback_method</a>
<b>McGowan Method:</b>	<a href="http://link.springer.com/article/10.1007/BF02311772">http://link.springer.com/article/10.1007/BF02311772</a>
<b>NIST Webbook:</b>	<a href="http://webbook.nist.gov/cgi/cbook.cgi?ID=C22219007&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=C22219007&amp;Units=SI</a>
<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>

# 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>hvac:</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>mccol:</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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