

# 2-Hydroxythiophenol, O,S-diacetyl-

<b>Inchi:</b>	InChI=1S/C10H10O3S/c1-7(11)13-9-5-3-4-6-10(9)14-8(2)12/h3-6H,1-2H3
<b>InchiKey:</b>	BGKTWXVZFWBNNX-UHFFFAOYSA-N
<b>Formula:</b>	C10H10O3S
<b>SMILES:</b>	CC(=O)Oc1ccccc1SC(C)=O
<b>Mol. weight [g/mol]:</b>	210.25

## Physical Properties

Property code	Value	Unit	Source
gf	-193.62	kJ/mol	Joback Method
hf	-340.18	kJ/mol	Joback Method
hfus	23.82	kJ/mol	Joback Method
hvap	63.51	kJ/mol	Joback Method
log10ws	-2.72		Crippen Method
logp	2.251		Crippen Method
mvol	153.360	ml/mol	McGowan Method
pc	3318.18	kPa	Joback Method
rinpol	1568.00		NIST Webbook
rinpol	1568.00		NIST Webbook
tb	658.80	K	Joback Method
tc	897.86	K	Joback Method
tf	397.89	K	Joback Method
vc	0.572	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	362.90	J/mol×K	658.80	Joback Method
cpg	374.85	J/mol×K	698.64	Joback Method
cpg	385.92	J/mol×K	738.49	Joback Method
cpg	396.11	J/mol×K	778.33	Joback Method
cpg	405.42	J/mol×K	818.17	Joback Method
cpg	413.85	J/mol×K	858.01	Joback Method
cpg	421.40	J/mol×K	897.86	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=U353060&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=U353060&amp;Units=SI</a>
<b>Crippen Method:</b>	<a href="http://pubs.acs.org/doi/abs/10.1021/ci990307I">http://pubs.acs.org/doi/abs/10.1021/ci990307I</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>hvp:</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>rlnol:</b>	Non-polar retention indices
<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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