

# Acetic 3-(acetylsulfanyl)benzoic anhydride

<b>Inchi:</b>	InChI=1S/C11H10O4S/c1-7(12)15-11(14)9-4-3-5-10(6-9)16-8(2)13/h3-6H,1-2H3
<b>InchiKey:</b>	MHOVADNDAZLWCF-UHFFFAOYSA-N
<b>Formula:</b>	C11H10O4S
<b>SMILES:</b>	CC(=O)OC(=O)c1cccc(SC(C)=O)c1
<b>Mol. weight [g/mol]:</b>	238.26

## Physical Properties

Property code	Value	Unit	Source
gf	-314.12	kJ/mol	Joback Method
hf	-473.40	kJ/mol	Joback Method
hfus	28.01	kJ/mol	Joback Method
hvap	72.48	kJ/mol	Joback Method
log10ws	-2.85		Crippen Method
logp	2.029		Crippen Method
mcvol	169.020	ml/mol	McGowan Method
pc	3195.54	kPa	Joback Method
rinpol	1856.30		NIST Webbook
rinpol	1856.30		NIST Webbook
tb	735.55	K	Joback Method
tc	975.26	K	Joback Method
tf	459.09	K	Joback Method
vc	0.633	m3/kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	422.69	J/molxK	735.55	Joback Method
cpg	433.69	J/molxK	775.50	Joback Method
cpg	443.71	J/molxK	815.45	Joback Method
cpg	452.75	J/molxK	855.41	Joback Method
cpg	460.83	J/molxK	895.36	Joback Method
cpg	467.94	J/molxK	935.31	Joback Method
cpg	474.08	J/molxK	975.26	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=U352984&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=U352984&amp;Units=SI</a>
<b>Crippen Method:</b>	<a href="http://pubs.acs.org/doi/abs/10.1021/ci990307l">http://pubs.acs.org/doi/abs/10.1021/ci990307l</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>rinp:</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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