

# 1,2-Benzenedimethanethiol, S,S'-diacetyl-

<b>Inchi:</b>	InChI=1S/C12H14O2S2/c1-9(13)15-7-11-5-3-4-6-12(11)8-16-10(2)14/h3-6H,7-8H2,1-2H1
<b>InchiKey:</b>	QWQXTHVGDJKJKJU-UHFFFAOYSA-N
<b>Formula:</b>	C12H14O2S2
<b>SMILES:</b>	CC(=O)SCc1ccccc1CSC(C)=O
<b>Mol. weight [g/mol]:</b>	254.37

## Physical Properties

Property code	Value	Unit	Source
gf	-38.66	kJ/mol	Joback Method
hf	-207.37	kJ/mol	Joback Method
hfus	31.95	kJ/mol	Joback Method
hvap	72.37	kJ/mol	Joback Method
log10ws	-4.22		Crippen Method
logp	3.246		Crippen Method
mvol	192.020	ml/mol	McGowan Method
pc	2787.66	kPa	Joback Method
rinpol	2010.50		NIST Webbook
rinpol	2010.50		NIST Webbook
tb	750.92	K	Joback Method
tc	999.06	K	Joback Method
tf	432.60	K	Joback Method
vc	0.720	m3/kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	487.72	J/molxK	750.92	Joback Method
cpg	500.54	J/molxK	792.28	Joback Method
cpg	512.21	J/molxK	833.63	Joback Method
cpg	522.76	J/molxK	874.99	Joback Method
cpg	532.21	J/molxK	916.35	Joback Method
cpg	540.59	J/molxK	957.70	Joback Method
cpg	547.92	J/molxK	999.06	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=U353026&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=U353026&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>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>rinpola:</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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