

# 2-oxopropyl 3-oxo-2-butyl disulfide

<b>Inchi:</b>	InChI=1S/C7H12O2S2/c1-5(8)4-10-11-7(3)6(2)9/h7H,4H2,1-3H3
<b>InchiKey:</b>	HNFFHSMXNNSFS-UHFFFAOYSA-N
<b>Formula:</b>	C7H12O2S2
<b>SMILES:</b>	CC(=O)CSSC(C)C(C)=O
<b>Mol. weight [g/mol]:</b>	192.30

## Physical Properties

Property code	Value	Unit	Source
gf	-185.98	kJ/mol	Joback Method
hf	-334.51	kJ/mol	Joback Method
hfus	21.82	kJ/mol	Joback Method
hvap	57.91	kJ/mol	Joback Method
log10ws	-2.18		Crippen Method
logp	1.934		Crippen Method
mcvol	145.330	ml/mol	McGowan Method
pc	3372.36	kPa	Joback Method
rinpol	1436.00		NIST Webbook
rinpol	1436.00		NIST Webbook
ripol	2280.00		NIST Webbook
ripol	2280.00		NIST Webbook
tb	604.42	K	Joback Method
tc	835.16	K	Joback Method
tf	322.31	K	Joback Method
vc	0.541	m3/kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	327.04	J/molxK	604.42	Joback Method
cpg	338.71	J/molxK	642.88	Joback Method
cpg	349.64	J/molxK	681.33	Joback Method
cpg	359.85	J/molxK	719.79	Joback Method
cpg	369.33	J/molxK	758.24	Joback Method
cpg	378.08	J/molxK	796.70	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>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=R224123&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=R224123&amp;Units=SI</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>rinpol:</b>	Non-polar retention indices
<b>ripol:</b>	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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