

# Butanal, 2,3-bis-(methylthio)

<b>Inchi:</b>	InChI=1S/C6H12OS2/c1-5(8-2)6(4-7)9-3/h4-6H,1-3H3/t5-,6+/m0/s1
<b>InchiKey:</b>	MFxACQQJJCSIDY-NTSWFWBYSA-N
<b>Formula:</b>	C6H12OS2
<b>SMILES:</b>	CSC(C)C(C=O)SC
<b>Mol. weight [g/mol]:</b>	164.29

## Physical Properties

Property code	Value	Unit	Source
gf	-38.52	kJ/mol	Joback Method
hf	-179.57	kJ/mol	Joback Method
hfus	14.80	kJ/mol	Joback Method
hvap	48.53	kJ/mol	Joback Method
log10ws	-1.61		Crippen Method
logp	1.668		Crippen Method
mcvol	129.670	ml/mol	McGowan Method
pc	3585.64	kPa	Joback Method
rinpol	1305.00		NIST Webbook
rinpol	1305.00		NIST Webbook
tb	522.02	K	Joback Method
tc	748.63	K	Joback Method
tf	238.18	K	Joback Method
vc	0.484	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	271.11	J/mol×K	522.02	Joback Method
cpg	282.85	J/mol×K	559.79	Joback Method
cpg	293.97	J/mol×K	597.56	Joback Method
cpg	304.47	J/mol×K	635.33	Joback Method
cpg	314.34	J/mol×K	673.10	Joback Method
cpg	323.59	J/mol×K	710.86	Joback Method
cpg	332.23	J/mol×K	748.63	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=R121712&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=R121712&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>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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