

# 2-Heptanone, 6-methyl-5,6-bis-(methylthio)

<b>Inchi:</b>	InChI=1S/C10H20OS2/c1-8(11)6-7-9(12-4)10(2,3)13-5/h9H,6-7H2,1-5H3
<b>InchiKey:</b>	UMXGLMGMLUBWGC-UHFFFAOYSA-N
<b>Formula:</b>	C10H20OS2
<b>SMILES:</b>	CSC(CCC(C)=O)C(C)(C)SC
<b>Mol. weight [g/mol]:</b>	220.40

## Physical Properties

Property code	Value	Unit	Source
gf	-28.96	kJ/mol	Joback Method
hf	-292.60	kJ/mol	Joback Method
hfus	20.58	kJ/mol	Joback Method
hvap	56.55	kJ/mol	Joback Method
log10ws	-3.28		Crippen Method
logp	3.229		Crippen Method
mcvol	186.030	ml/mol	McGowan Method
pc	2370.28	kPa	Joback Method
rinqol	1596.00		NIST Webbook
tb	615.96	K	Joback Method
tc	840.20	K	Joback Method
tf	308.61	K	Joback Method
vc	0.693	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	459.43	J/molxK	615.96	Joback Method
cpg	475.45	J/molxK	653.33	Joback Method
cpg	490.44	J/molxK	690.71	Joback Method
cpg	504.43	J/molxK	728.08	Joback Method
cpg	517.45	J/molxK	765.45	Joback Method
cpg	529.54	J/molxK	802.83	Joback Method
cpg	540.75	J/molxK	840.20	Joback Method

# Sources

<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=R121638&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=R121638&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>
<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>

# 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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