

# 4-Mercapto-3-methyl-2-pentanone, # 2

<b>Inchi:</b>	InChI=1S/C6H12OS/c1-4(5(2)7)6(3)8/h4,6,8H,1-3H3
<b>InchiKey:</b>	VFPDUTYZTDYOAS-UHFFFAOYSA-N
<b>Formula:</b>	C6H12OS
<b>SMILES:</b>	CC(=O)C(C)C(C)S
<b>Mol. weight [g/mol]:</b>	132.22

## Physical Properties

Property code	Value	Unit	Source
gf	-104.77	kJ/mol	Joback Method
hf	-251.83	kJ/mol	Joback Method
hfus	9.89	kJ/mol	Joback Method
hvap	41.66	kJ/mol	Joback Method
log10ws	-1.56		Crippen Method
logp	1.530		Crippen Method
mvol	113.320	ml/mol	McGowan Method
pc	3668.65	kPa	Joback Method
rinpol	967.00		NIST Webbook
rinpol	967.00		NIST Webbook
tb	452.53	K	Joback Method
tc	662.92	K	Joback Method
tf	213.77	K	Joback Method
vc	0.419	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	222.16	J/mol×K	452.53	Joback Method
cpg	233.66	J/mol×K	487.60	Joback Method
cpg	244.60	J/mol×K	522.66	Joback Method
cpg	254.97	J/mol×K	557.73	Joback Method
cpg	264.81	J/mol×K	592.79	Joback Method
cpg	274.12	J/mol×K	627.86	Joback Method
cpg	282.93	J/mol×K	662.92	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=R603031&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=R603031&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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