

# 2-[(1-methyl-2-oxopropyl)-trithio]-3-pentanone

<b>Inchi:</b>	InChI=1S/C9H16O2S3/c1-5-9(11)8(4)13-14-12-7(3)6(2)10/h7-8H,5H2,1-4H3
<b>InchiKey:</b>	MCKKMSMZABNXEW-UHFFFAOYSA-N
<b>Formula:</b>	C9H16O2S3
<b>SMILES:</b>	CCC(=O)C(C)SSSC(C)C(C)=O
<b>Mol. weight [g/mol]:</b>	252.42

## Physical Properties

Property code	Value	Unit	Source
gf	-138.46	kJ/mol	Joback Method
hf	-339.20	kJ/mol	Joback Method
hfus	27.61	kJ/mol	Joback Method
hvap	68.80	kJ/mol	Joback Method
log10ws	-4.01		Crippen Method
logp	3.361		Crippen Method
mvol	189.860	ml/mol	McGowan Method
pc	2802.44	kPa	Joback Method
rinpol	1820.00		NIST Webbook
rinpol	1820.00		NIST Webbook
tb	718.52	K	Joback Method
tc	960.85	K	Joback Method
tf	364.25	K	Joback Method
vc	0.702	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	473.70	J/mol×K	718.52	Joback Method
cpg	486.78	J/mol×K	758.91	Joback Method
cpg	498.79	J/mol×K	799.30	Joback Method
cpg	509.73	J/mol×K	839.69	Joback Method
cpg	519.59	J/mol×K	880.07	Joback Method
cpg	528.38	J/mol×K	920.46	Joback Method
cpg	536.09	J/mol×K	960.85	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=R222994&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=R222994&amp;Units=SI</a>
<b>Crippen Method:</b>	<a href="http://pubs.acs.org/doi/abs/10.1021/ci990307l">http://pubs.acs.org/doi/abs/10.1021/ci990307l</a>
<b>Crippen Method:</b>	<a href="https://www.cheméo.com/doc/models/crippen_log10ws">https://www.cheméo.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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