

# TETRAMETHYL ORTHOTHIOCARBONATE

<b>Inchi:</b>	InChI=1S/C5H12S4/c1-6-5(7-2,8-3)9-4/h1-4H3
<b>InchiKey:</b>	VIKWCIIVDLETK-UHFFFAOYSA-N
<b>Formula:</b>	C5H12S4
<b>SMILES:</b>	CSC(SC)(SC)SC
<b>Mol. weight [g/mol]:</b>	200.42

## Physical Properties

Property code	Value	Unit	Source
gf	126.54	kJ/mol	Joback Method
hf	12.20	kJ/mol	Joback Method
hfus	17.81	kJ/mol	Joback Method
hvap	52.70	kJ/mol	Joback Method
log10ws	-3.05		Crippen Method
logp	3.050		Crippen Method
mcvol	146.710	ml/mol	McGowan Method
pc	3853.09	kPa	Joback Method
tb	585.69	K	Joback Method
tc	863.12	K	Joback Method
tf	286.13	K	Joback Method
vc	0.520	m3/kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	306.34	J/molxK	585.69	Joback Method
cpg	319.17	J/molxK	631.93	Joback Method
cpg	330.97	J/molxK	678.17	Joback Method
cpg	341.75	J/molxK	724.41	Joback Method
cpg	351.52	J/molxK	770.65	Joback Method
cpg	360.27	J/molxK	816.88	Joback Method
cpg	368.02	J/molxK	863.12	Joback Method

# Sources

<b>KDB:</b>	<a href="https://www.chemic.org/files/research/kdb/mol/mol1833.mol">https://www.chemic.org/files/research/kdb/mol/mol1833.mol</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>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.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>mccvol:</b>	McGowan's characteristic volume
<b>pc:</b>	Critical Pressure
<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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