

# 2-methyl-3,7-dithiaoctane

<b>Inchi:</b>	InChI=1S/C7H16S2/c1-7(2)9-6-4-5-8-3/h7H,4-6H2,1-3H3
<b>InchiKey:</b>	PFPOFGJKQAPIDH-UHFFFAOYSA-N
<b>Formula:</b>	C7H16S2
<b>SMILES:</b>	CSCCCSC(C)C
<b>Mol. weight [g/mol]:</b>	164.33

## Physical Properties

Property code	Value	Unit	Source
gf	71.86	kJ/mol	Joback Method
hf	-109.35	kJ/mol	Joback Method
hfus	18.62	kJ/mol	Joback Method
hvap	44.42	kJ/mol	Joback Method
log10ws	-2.63		Crippen Method
logp	2.881		Crippen Method
mcvol	142.190	ml/mol	McGowan Method
pc	2928.17	kPa	Joback Method
rinsol	1244.00		NIST Webbook
tb	496.68	K	Joback Method
tc	710.61	K	Joback Method
tf	222.45	K	Joback Method
vc	0.529	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	296.60	J/mol×K	496.68	Joback Method
cpg	310.45	J/mol×K	532.33	Joback Method
cpg	323.66	J/mol×K	567.99	Joback Method
cpg	336.24	J/mol×K	603.64	Joback Method
cpg	348.17	J/mol×K	639.30	Joback Method
cpg	359.48	J/mol×K	674.95	Joback Method
cpg	370.16	J/mol×K	710.61	Joback Method

# Sources

<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>
<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=R156119&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=R156119&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>mccvol:</b>	McGowan's characteristic volume
<b>pc:</b>	Critical Pressure
<b>rinpol:</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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