

# 2,4-dimethyl-3,5-dithia-7-octene

<b>Inchi:</b>	InChI=1S/C8H16S2/c1-5-6-9-8(4)10-7(2)3/h5,7-8H,1,6H2,2-4H3
<b>InchiKey:</b>	MZTJNVGAWXUYGR-UHFFFAOYSA-N
<b>Formula:</b>	C8H16S2
<b>SMILES:</b>	C=CCSC(C)SC(C)C
<b>Mol. weight [g/mol]:</b>	176.34

## Physical Properties

Property code	Value	Unit	Source
gf	165.68	kJ/mol	Joback Method
hf	-9.84	kJ/mol	Joback Method
hfus	16.41	kJ/mol	Joback Method
hvap	45.59	kJ/mol	Joback Method
log10ws	-3.51		Crippen Method
logp	3.393		Crippen Method
mcvol	151.980	ml/mol	McGowan Method
pc	2787.66	kPa	Joback Method
rinpol	1185.00		NIST Webbook
tb	515.80	K	Joback Method
tc	735.95	K	Joback Method
tf	216.96	K	Joback Method
vc	0.560	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	322.79	J/mol×K	515.80	Joback Method
cpg	337.40	J/mol×K	552.49	Joback Method
cpg	351.24	J/mol×K	589.18	Joback Method
cpg	364.33	J/mol×K	625.87	Joback Method
cpg	376.68	J/mol×K	662.56	Joback Method
cpg	388.30	J/mol×K	699.26	Joback Method
cpg	399.20	J/mol×K	735.95	Joback Method

# Sources

<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>
<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=R155621&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=R155621&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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