

# 2,2-dimethyl-4,5-dithiaoctane

<b>Inchi:</b>	InChI=1S/C8H18S2/c1-5-6-9-10-7-8(2,3)4/h5-7H2,1-4H3
<b>InchiKey:</b>	BCWAUAWMZLMXSS-UHFFFAOYSA-N
<b>Formula:</b>	C8H18S2
<b>SMILES:</b>	CCCSSCC(C)(C)C
<b>Mol. weight [g/mol]:</b>	178.36

## Physical Properties

Property code	Value	Unit	Source
gf	85.56	kJ/mol	Joback Method
hf	-133.46	kJ/mol	Joback Method
hfus	17.32	kJ/mol	Joback Method
hvap	45.74	kJ/mol	Joback Method
log10ws	-3.69		Crippen Method
logp	3.824		Crippen Method
mvol	156.280	ml/mol	McGowan Method
pc	2676.31	kPa	Joback Method
rinpol	1225.00		NIST Webbook
rinpol	1225.00		NIST Webbook
tb	516.77	K	Joback Method
tc	736.19	K	Joback Method
tf	251.14	K	Joback Method
vc	0.581	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	343.93	J/molxK	516.77	Joback Method
cpg	359.54	J/molxK	553.34	Joback Method
cpg	374.26	J/molxK	589.91	Joback Method
cpg	388.10	J/molxK	626.48	Joback Method
cpg	401.11	J/molxK	663.05	Joback Method
cpg	413.31	J/molxK	699.62	Joback Method
cpg	424.73	J/molxK	736.19	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=R155403&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=R155403&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>hvp:</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>rinp:</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

Latest version available from:

<https://www.chemeo.com/cid/61-785-3/2-2-dimethyl-4-5-dithiaoctane.pdf>

Generated by Cheméo on 2024-04-30 05:05:26.697185469 +0000 UTC m=+16742775.617762784.

Cheméo (<https://www.chemeo.com>) is the biggest free database of chemical and physical data for the process industry.