

# 1,2-Dithiacyclopent-3-ene

<b>Inchi:</b>	InChI=1S/C3H4S2/c1-2-4-5-3-1/h1-2H,3H2
<b>InchiKey:</b>	PCGDBWLKAYKBTN-UHFFFAOYSA-N
<b>Formula:</b>	C3H4S2
<b>SMILES:</b>	C1=CSSC1
<b>Mol. weight [g/mol]:</b>	104.19
<b>CAS:</b>	288-26-6

## Physical Properties

Property code	Value	Unit	Source
gf	128.32	kJ/mol	Joback Method
hf	123.87	kJ/mol	Joback Method
hfus	4.93	kJ/mol	Joback Method
hvap	34.75	kJ/mol	Joback Method
log10ws	-2.08		Crippen Method
logp	1.895		Crippen Method
mcvol	70.670	ml/mol	McGowan Method
pc	6209.79	kPa	Joback Method
rinpol	945.00		NIST Webbook
rinpol	958.60		NIST Webbook
rinpol	941.00		NIST Webbook
rinpol	936.00		NIST Webbook
rinpol	958.60		NIST Webbook
rinpol	941.00		NIST Webbook
rinpol	936.00		NIST Webbook
rinpol	945.00		NIST Webbook
ripol	1510.00		NIST Webbook
ripol	1490.00		NIST Webbook
ripol	1490.00		NIST Webbook
ripol	1510.00		NIST Webbook
ripol	1513.00		NIST Webbook
tb	382.81	K	Joback Method
tc	625.27	K	Joback Method
tf	306.37	K	Joback Method
vc	0.224	m <sup>3</sup> /kmol	Joback Method

# Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	101.43	J/mol×K	382.81	Joback Method
cpg	109.35	J/mol×K	423.22	Joback Method
cpg	116.60	J/mol×K	463.63	Joback Method
cpg	123.24	J/mol×K	504.04	Joback Method
cpg	129.31	J/mol×K	544.45	Joback Method
cpg	134.85	J/mol×K	584.86	Joback Method
cpg	139.91	J/mol×K	625.27	Joback Method

## Sources

<b>Crippen Method:</b>	<a href="http://pubs.acs.org/doi/abs/10.1021/ci9903071">http://pubs.acs.org/doi/abs/10.1021/ci9903071</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=C288266&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=C288266&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>mcvol:</b>	McGowan's characteristic volume
<b>pc:</b>	Critical Pressure
<b>ripol:</b>	Non-polar retention indices
<b>ripol:</b>	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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