

# 2,3-Dimethyl-5,6-dithiabicyclo[2.1.1]hexane, 5,5-dioxide

Inchi:	InChI=1S/C6H10O2S2/c1-3-4(2)6-9-5(3)10(6,7)8/h3-6H,1-2H3
InchiKey:	KXXBBGPZYBPBEO-UHFFFAOYSA-N
Formula:	C6H10O2S2
SMILES:	CC1C(C)C2SC1S2(=O)=O
Mol. weight [g/mol]:	178.27

## Physical Properties

Property code	Value	Unit	Source
gf	-316.22	kJ/mol	Joback Method
hf	-466.95	kJ/mol	Joback Method
hfus	24.27	kJ/mol	Joback Method
hvap	51.60	kJ/mol	Joback Method
log10ws	-1.57		Crippen Method
logp	1.086		Crippen Method
mvol	118.120	ml/mol	McGowan Method
pc	4602.62	kPa	Joback Method
rinpol	1421.00		NIST Webbook
tb	415.48	K	Joback Method
tc	613.16	K	Joback Method
tf	355.84	K	Joback Method
vc	0.448	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	238.18	J/mol×K	415.48	Joback Method
cpg	252.59	J/mol×K	448.43	Joback Method
cpg	266.14	J/mol×K	481.37	Joback Method
cpg	278.88	J/mol×K	514.32	Joback Method
cpg	290.82	J/mol×K	547.27	Joback Method
cpg	302.03	J/mol×K	580.21	Joback Method
cpg	312.54	J/mol×K	613.16	Joback Method

# Sources

<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=U322303&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=U322303&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>
<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>mcvol:</b>	McGowan's characteristic volume
<b>pc:</b>	Critical Pressure
<b>rinpola:</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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