

# 2-Ethylidene[1,3]dithiane

<b>Inchi:</b>	InChI=1S/C6H10S2/c1-2-6-7-4-3-5-8-6/h2H,3-5H2,1H3
<b>InchiKey:</b>	WNNFMNLZTIEHOD-UHFFFAOYSA-N
<b>Formula:</b>	C6H10S2
<b>SMILES:</b>	CC=C1SCCS1
<b>Mol. weight [g/mol]:</b>	146.27
<b>CAS:</b>	51102-62-6

## Physical Properties

Property code	Value	Unit	Source
gf	156.98	kJ/mol	Joback Method
hf	74.04	kJ/mol	Joback Method
hfus	9.70	kJ/mol	Joback Method
hvap	42.10	kJ/mol	Joback Method
log10ws	-2.84		Crippen Method
logp	2.718		Crippen Method
mcvol	112.940	ml/mol	McGowan Method
pc	4222.04	kPa	Joback Method
ripol	1778.00		NIST Webbook
tb	463.20	K	Joback Method
tc	711.70	K	Joback Method
tf	346.26	K	Joback Method
vc	0.381	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	208.83	J/mol×K	463.20	Joback Method
cpg	222.29	J/mol×K	504.62	Joback Method
cpg	234.83	J/mol×K	546.03	Joback Method
cpg	246.50	J/mol×K	587.45	Joback Method
cpg	257.35	J/mol×K	628.87	Joback Method
cpg	267.43	J/mol×K	670.29	Joback Method
cpg	276.78	J/mol×K	711.70	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=C51102626&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=C51102626&amp;Units=SI</a>
<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.cheméo.com/doc/models/crippen_log10ws">https://www.cheméo.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>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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