

# 2-Butyl-4-methyl-1,3-dithiolane

Inchi:	InChI=1S/C8H16S2/c1-3-4-5-8-9-6-7(2)10-8/h7-8H,3-6H2,1-2H3
InchiKey:	IHIDAFFUACTHDJ-UHFFFAOYSA-N
Formula:	C8H16S2
SMILES:	CCCCC1SCC(C)S1
Mol. weight [g/mol]:	176.34

## Physical Properties

Property code	Value	Unit	Source
gf	125.04	kJ/mol	Joback Method
hf	-77.79	kJ/mol	Joback Method
hfus	18.80	kJ/mol	Joback Method
hvap	44.97	kJ/mol	Joback Method
log10ws	-3.55		Crippen Method
logp	3.371		Crippen Method
mcvol	145.420	ml/mol	McGowan Method
pc	2918.68	kPa	Joback Method
rinpol	1320.00		NIST Webbook
rinpol	1324.00		NIST Webbook
rinpol	1368.00		NIST Webbook
rinpol	1361.00		NIST Webbook
rinpol	1320.00		NIST Webbook
rinpol	1324.00		NIST Webbook
rinpol	1350.00		NIST Webbook
rinpol	1332.00		NIST Webbook
rinpol	1324.00		NIST Webbook
tb	488.71	K	Joback Method
tc	710.71	K	Joback Method
tf	353.48	K	Joback Method
vc	0.515	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	312.30	J/mol×K	488.71	Joback Method

cpg	329.20	J/mol×K	525.71	Joback Method
cpg	345.16	J/mol×K	562.71	Joback Method
cpg	360.21	J/mol×K	599.71	Joback Method
cpg	374.40	J/mol×K	636.71	Joback Method
cpg	387.75	J/mol×K	673.71	Joback Method
cpg	400.30	J/mol×K	710.71	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=R78808&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=R78808&amp;Units=SI</a>
<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>

## 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>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

Latest version available from:

<https://www.chemeo.com/cid/13-949-4/2-Butyl-4-methyl-1-3-dithiolane.pdf>

Generated by Cheméo on 2024-05-02 09:03:11.596580527 +0000 UTC m=+16929840.517157839.

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