

# Ethanol, 2,2'-[1,4-butanediylbis(thio)]bis-

<b>Other names:</b>	1,4-Bis(2-hydroxyethylthio)butane 2,2'-[butane-1,4-diylbis(thio)]bisethanol
<b>Inchi:</b>	InChI=1S/C8H18O2S2/c9-3-7-11-5-1-2-6-12-8-4-10/h9-10H,1-8H2
<b>InchiKey:</b>	FORJWQPKXQQOG-UHFFFAOYSA-N
<b>Formula:</b>	C8H18O2S2
<b>SMILES:</b>	OCCSCCCCSCCO
<b>Mol. weight [g/mol]:</b>	210.36
<b>CAS:</b>	7425-93-6

## Physical Properties

Property code	Value	Unit	Source
gf	-190.92	kJ/mol	Joback Method
hf	-429.17	kJ/mol	Joback Method
hfus	32.91	kJ/mol	Joback Method
hvap	80.39	kJ/mol	Joback Method
log10ws	-1.47		Crippen Method
logp	1.218		Crippen Method
mcvol	168.020	ml/mol	McGowan Method
pc	3199.16	kPa	Joback Method
tb	704.36	K	Joback Method
tc	889.98	K	Joback Method
tf	370.36	K	Joback Method
vc	0.629	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	445.91	J/mol×K	704.36	Joback Method
cpg	456.18	J/mol×K	735.30	Joback Method
cpg	465.90	J/mol×K	766.23	Joback Method
cpg	475.08	J/mol×K	797.17	Joback Method
cpg	483.73	J/mol×K	828.11	Joback Method
cpg	491.86	J/mol×K	859.05	Joback Method
cpg	499.49	J/mol×K	889.98	Joback Method

# Sources

<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=C7425936&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=C7425936&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.chemeo.com/doc/models/crippen_log10ws">https://www.chemeo.com/doc/models/crippen_log10ws</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>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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