

# Ethanol, 2,2'-dithiobis-

<b>Other names:</b>	Ethanol, 2,2'-dithiodi- Bis(2-hydroxyethyl) disulfide Diethanol disulfide Dithiodiglycol Hydroxyethyl disulfide 2-Hydroxyethanedisulfide 2-Hydroxyethyl disulfide 2,2'-Dithiodiethanol 3,4-Dithia-1,6-hexanediol USAF TH-9 2,2'-Dithiobisethanol 2-Mercaptoethanol disulfide NSC 33920 «beta»-Hydroxyethyl disulfide
<b>Inchi:</b>	InChI=1S/C4H10O2S2/c5-1-3-7-8-4-2-6/h5-6H,1-4H2
<b>InchiKey:</b>	KYNFOMQIXZUKRK-UHFFFAOYSA-N
<b>Formula:</b>	C4H10O2S2
<b>SMILES:</b>	OCCSSCCO
<b>Mol. weight [g/mol]:</b>	154.25
<b>CAS:</b>	1892-29-1

## Physical Properties

Property code	Value	Unit	Source
gf	-224.60	kJ/mol	Joback Method
hf	-346.61	kJ/mol	Joback Method
hfus	22.55	kJ/mol	Joback Method
hvap	71.49	kJ/mol	Joback Method
log10ws	-0.78		Crippen Method
logp	0.352		Crippen Method
mcvol	111.660	ml/mol	McGowan Method
pc	5220.69	kPa	Joback Method
rinpola	1425.00		NIST Webbook
tb	612.84	K	Joback Method
tc	804.64	K	Joback Method
tf	325.28	K	Joback Method
vc	0.406	m <sup>3</sup> /kmol	Joback Method

# Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	253.80	J/mol×K	612.84	Joback Method
cpg	260.91	J/mol×K	644.81	Joback Method
cpg	267.67	J/mol×K	676.77	Joback Method
cpg	274.07	J/mol×K	708.74	Joback Method
cpg	280.13	J/mol×K	740.71	Joback Method
cpg	285.83	J/mol×K	772.68	Joback Method
cpg	291.17	J/mol×K	804.64	Joback Method

# Pressure Dependent Properties

Property code	Value	Unit	Pressure [kPa]	Source
tbrp	433.70	K	0.50	NIST Webbook

## Sources

NIST Webbook:	<a href="http://webbook.nist.gov/cgi/cbook.cgi?ID=C1892291&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=C1892291&amp;Units=SI</a>
Crippen Method:	<a href="http://pubs.acs.org/doi/abs/10.1021/ci9903071">http://pubs.acs.org/doi/abs/10.1021/ci9903071</a>
Crippen Method:	<a href="https://www.chemeo.com/doc/models/crippen_log10ws">https://www.chemeo.com/doc/models/crippen_log10ws</a>
Joback Method:	<a href="https://en.wikipedia.org/wiki/Joback_method">https://en.wikipedia.org/wiki/Joback_method</a>
McGowan Method:	<a href="http://link.springer.com/article/10.1007/BF02311772">http://link.springer.com/article/10.1007/BF02311772</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>hvac:</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>tbrp:</b>	Boiling point at reduced pressure
<b>tc:</b>	Critical Temperature
<b>tf:</b>	Normal melting (fusion) point
<b>vc:</b>	Critical Volume

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