

# Disulfide, ethyl phenyl

<b>Inchi:</b>	InChI=1S/C8H10S2/c1-2-9-10-8-6-4-3-5-7-8/h3-7H,2H2,1H3
<b>InchiKey:</b>	UYKWEIJSRNJHQD-UHFFFAOYSA-N
<b>Formula:</b>	C8H10S2
<b>SMILES:</b>	CCSSc1ccccc1
<b>Mol. weight [g/mol]:</b>	170.29
<b>CAS:</b>	4032-81-9

## Physical Properties

Property code	Value	Unit	Source
gf	195.13	kJ/mol	Joback Method
hf	111.82	kJ/mol	Joback Method
hfus	18.78	kJ/mol	Joback Method
hvap	49.31	kJ/mol	Joback Method
log10ws	-3.51		Crippen Method
logp	3.447		Crippen Method
mcvol	132.520	ml/mol	McGowan Method
pc	3805.69	kPa	Joback Method
tb	546.68	K	Joback Method
tc	804.40	K	Joback Method
tf	275.14	K	Joback Method
vc	0.483	m3/kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	269.83	J/molxK	546.68	Joback Method
cpg	283.35	J/molxK	589.63	Joback Method
cpg	295.89	J/molxK	632.59	Joback Method
cpg	307.47	J/molxK	675.54	Joback Method
cpg	318.12	J/molxK	718.49	Joback Method
cpg	327.87	J/molxK	761.45	Joback Method
cpg	336.73	J/molxK	804.40	Joback Method

# Sources

<b>NIST Webbook:</b>	<a href="http://webbook.nist.gov/cgi/cbook.cgi?ID=C4032819&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=C4032819&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>
<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>

# 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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