

# 2,3,5,6-Tetrathiaheptane, 4-ethyl

**Inchi:** InChI=1S/C5H10S4/c1-2-5-8-6-3-4-7-9-5/h5H,2-4H2,1H3  
**InchiKey:** NUTMZWWGGCPEQF-UHFFFAOYSA-N  
**Formula:** C5H10S4  
**SMILES:** CCC1SSCCSS1  
**Mol. weight [g/mol]:** 198.39

## Physical Properties

Property code	Value	Unit	Source
gf	163.01	kJ/mol	Joback Method
hf	82.67	kJ/mol	Joback Method
hfus	13.07	kJ/mol	Joback Method
hvap	50.57	kJ/mol	Joback Method
log10ws	-3.93		Crippen Method
logp	3.499		Crippen Method
mcvol	135.850	ml/mol	McGowan Method
pc	4492.23	kPa	Joback Method
rinpol	1462.00		NIST Webbook
rinpol	1462.00		NIST Webbook
rinpol	1452.00		NIST Webbook
tb	528.94	K	Joback Method
tc	815.07	K	Joback Method
tf	483.77	K	Joback Method
vc	0.424	m3/kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	267.47	J/molxK	528.94	Joback Method
cpg	282.32	J/molxK	576.63	Joback Method
cpg	296.05	J/molxK	624.32	Joback Method
cpg	308.70	J/molxK	672.00	Joback Method
cpg	320.29	J/molxK	719.69	Joback Method
cpg	330.88	J/molxK	767.38	Joback Method
cpg	340.50	J/molxK	815.07	Joback Method

# Sources

<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>
<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>
<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=R56688&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=R56688&amp;Units=SI</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>hvp:</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>rinp:</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

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