

# 1-Ethylthio-3-buten-1-yne

<b>Inchi:</b>	InChI=1S/C6H8S/c1-3-5-6-7-4-2/h3H,1,4H2,2H3
<b>InchiKey:</b>	SICACCNECSLXMB-UHFFFAOYSA-N
<b>Formula:</b>	C6H8S
<b>SMILES:</b>	C=CC#CSCC
<b>Mol. weight [g/mol]:</b>	112.19
<b>CAS:</b>	14272-36-7

## Physical Properties

Property code	Value	Unit	Source
gf	323.40	kJ/mol	Joback Method
hf	272.43	kJ/mol	Joback Method
hfus	17.27	kJ/mol	Joback Method
hvap	37.25	kJ/mol	Joback Method
log10ws	-2.36		Crippen Method
logp	1.886		Crippen Method
mcvol	98.850	ml/mol	McGowan Method
pc	4031.24	kPa	Joback Method
tb	411.14	K	Joback Method
tc	633.30	K	Joback Method
tf	296.12	K	Joback Method
vc	0.368	m3/kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	164.77	J/molxK	411.14	Joback Method
cpg	173.97	J/molxK	448.17	Joback Method
cpg	182.75	J/molxK	485.19	Joback Method
cpg	191.11	J/molxK	522.22	Joback Method
cpg	199.07	J/molxK	559.25	Joback Method
cpg	206.63	J/molxK	596.28	Joback Method
cpg	213.81	J/molxK	633.30	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=C14272367&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=C14272367&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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