

# Ethyl propyl trisulfide

<b>Inchi:</b>	InChI=1S/C5H12S3/c1-3-5-7-8-6-4-2/h3-5H2,1-2H3
<b>InchiKey:</b>	SHEIYCJSZOMHMI-UHFFFAOYSA-N
<b>Formula:</b>	C5H12S3
<b>SMILES:</b>	CCCSSSCC
<b>Mol. weight [g/mol]:</b>	168.34

## Physical Properties

Property code	Value	Unit	Source
gf	90.58	kJ/mol	Joback Method
hf	-20.92	kJ/mol	Joback Method
hfus	21.10	kJ/mol	Joback Method
hvap	47.17	kJ/mol	Joback Method
log10ws	-3.55		Crippen Method
logp	3.446		Crippen Method
mvol	130.360	ml/mol	McGowan Method
pc	3686.49	kPa	Joback Method
ripol	1602.00		NIST Webbook
ripol	1602.00		NIST Webbook
tb	520.14	K	Joback Method
tc	758.40	K	Joback Method
tf	249.31	K	Joback Method
vc	0.477	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	258.08	J/mol×K	520.14	Joback Method
cpg	269.75	J/mol×K	559.85	Joback Method
cpg	280.84	J/mol×K	599.56	Joback Method
cpg	291.33	J/mol×K	639.27	Joback Method
cpg	301.21	J/mol×K	678.98	Joback Method
cpg	310.47	J/mol×K	718.69	Joback Method
cpg	319.09	J/mol×K	758.40	Joback Method

# Sources

<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>
<b>NIST Webbook:</b>	<a href="http://webbook.nist.gov/cgi/cbook.cgi?ID=R440063&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=R440063&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>

# 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>ripol:</b>	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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