

# 1-Allyl-3-(2-(allyldisulfanyl)propyl)trisulfane

<b>Inchi:</b>	InChI=1S/C9H16S5/c1-4-6-10-13-9(3)8-12-14-11-7-5-2/h4-5,9H,1-2,6-8H2,3H3
<b>InchiKey:</b>	HDWNJDHOBGLTNY-UHFFFAOYSA-N
<b>Formula:</b>	C9H16S5
<b>SMILES:</b>	C=CCSSSCC(C)SSCC=C
<b>Mol. weight [g/mol]:</b>	284.55
<b>CAS:</b>	116664-24-5

## Physical Properties

Property code	Value	Unit	Source
gf	363.74	kJ/mol	Joback Method
hf	225.84	kJ/mol	Joback Method
hfus	33.63	kJ/mol	Joback Method
hvap	67.99	kJ/mol	Joback Method
log10ws	-5.80		Crippen Method
logp	5.158		Crippen Method
mcvol	210.820	ml/mol	McGowan Method
pc	2755.56	kPa	Joback Method
rinpol	2066.10		NIST Webbook
rinpol	2066.10		NIST Webbook
tb	742.14	K	Joback Method
tc	1010.80	K	Joback Method
tf	344.67	K	Joback Method
vc	0.765	m3/kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	500.26	J/molxK	742.14	Joback Method
cpg	513.84	J/molxK	786.92	Joback Method
cpg	526.08	J/molxK	831.69	Joback Method
cpg	536.99	J/molxK	876.47	Joback Method
cpg	546.55	J/molxK	921.25	Joback Method
cpg	554.78	J/molxK	966.03	Joback Method
cpg	561.65	J/molxK	1010.80	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.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=C116664245&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=C116664245&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>hvpap:</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>rinppl:</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

Latest version available from:

<https://www.chemeo.com/cid/92-002-7/1-Allyl-3-2-allyldisulfanyl-propyl-trisulfane.pdf>

Generated by Cheméo on 2024-04-19 19:10:12.423031741 +0000 UTC m=+15843061.343609052.

Cheméo (<https://www.chemeo.com>) is the biggest free database of chemical and physical data for the process industry.