

# 1,4,8,11-Tetrathiacyclotetradecane

<b>Inchi:</b>	InChI=1S/C10H20S4/c1-3-11-7-9-13-5-2-6-14-10-8-12-4-1/h1-10H2
<b>InchiKey:</b>	WMVHWZHZRYGGOO-UHFFFAOYSA-N
<b>Formula:</b>	C10H20S4
<b>SMILES:</b>	C1CSCCSCCCSCCSC1
<b>Mol. weight [g/mol]:</b>	268.53
<b>CAS:</b>	24194-61-4

## Physical Properties

Property code	Value	Unit	Source
gf	128.12	kJ/mol	Joback Method
hf	-43.31	kJ/mol	Joback Method
hfus	10.25	kJ/mol	Joback Method
hvap	63.22	kJ/mol	Joback Method
log10ws	-3.44		Crippen Method
logp	3.713		Crippen Method
mcvol	206.300	ml/mol	McGowan Method
pc	3213.68	kPa	Joback Method
tb	677.90	K	Joback Method
tc	1002.43	K	Joback Method
tf	519.72	K	Joback Method
vc	0.649	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	519.18	J/mol×K	677.90	Joback Method
cpg	545.59	J/mol×K	731.99	Joback Method
cpg	569.14	J/mol×K	786.08	Joback Method
cpg	589.78	J/mol×K	840.17	Joback Method
cpg	607.45	J/mol×K	894.25	Joback Method
cpg	622.10	J/mol×K	948.34	Joback Method
cpg	633.66	J/mol×K	1002.43	Joback Method
hfust	33.00	kJ/mol	393.20	NIST Webbook

# 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=C24194614&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=C24194614&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.cheméo.com/doc/models/crippen_log10ws">https://www.cheméo.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>hfust:</b>	Enthalpy of fusion at a given temperature
<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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