

# Heptane, 1,1'-thiobis-

<b>Other names:</b>	Heptyl sulfide Diheptyl sulfide n-Heptyl sulfide di-n-Heptyl sulfide diheptyl sulphide
<b>Inchi:</b>	InChI=1S/C14H30S/c1-3-5-7-9-11-13-15-14-12-10-8-6-4-2/h3-14H2,1-2H3
<b>InchiKey:</b>	LEMIDOZYVQXGLI-UHFFFAOYSA-N
<b>Formula:</b>	C14H30S
<b>SMILES:</b>	CCCCCCCSCCCCCC
<b>Mol. weight [g/mol]:</b>	230.45
<b>CAS:</b>	629-65-2

## Physical Properties

Property code	Value	Unit	Source
gf	100.12	kJ/mol	Joback Method
hf	-290.42	kJ/mol	Joback Method
hfus	36.15	kJ/mol	Joback Method
hvap	53.58	kJ/mol	Joback Method
log10ws	-5.57		Crippen Method
logp	5.660		Crippen Method
mcvol	224.470	ml/mol	McGowan Method
pc	1543.92	kPa	Joback Method
rinpol	1674.00		NIST Webbook
rinpol	1696.00		NIST Webbook
rinpol	1682.00		NIST Webbook
rinpol	1674.00		NIST Webbook
tb	588.50	K	Joback Method
tc	763.97	K	Joback Method
tf	281.94	K	Joback Method
vc	0.874	m3/kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
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cpg	575.87	J/mol×K	588.50	Joback Method
cpg	594.19	J/mol×K	617.74	Joback Method
cpg	611.71	J/mol×K	646.99	Joback Method
cpg	628.47	J/mol×K	676.23	Joback Method
cpg	644.48	J/mol×K	705.48	Joback Method
cpg	659.75	J/mol×K	734.72	Joback Method
cpg	674.32	J/mol×K	763.97	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=C629652&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=C629652&amp;Units=SI</a>
<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>

## 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>rinpol:</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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