

# 2-Tetradecylthiolane

<b>Other names:</b>	Thiolane, 2-tetradecyl
<b>Inchi:</b>	InChI=1S/C18H36S/c1-2-3-4-5-6-7-8-9-10-11-12-13-15-18-16-14-17-19-18/h18H,2-17H2
<b>InchiKey:</b>	QAYAAJHVMVYEEP-UHFFFAOYSA-N
<b>Formula:</b>	C18H36S
<b>SMILES:</b>	CCCCCCCCCCCCCCCC1CCCS1
<b>Mol. weight [g/mol]:</b>	284.54

## Physical Properties

Property code	Value	Unit	Source
gf	177.09	kJ/mol	Joback Method
hf	-309.11	kJ/mol	Joback Method
hfus	39.97	kJ/mol	Joback Method
hvap	61.73	kJ/mol	Joback Method
log10ws	-7.25		Crippen Method
logp	6.973		Crippen Method
mcvol	269.970	ml/mol	McGowan Method
pc	1301.41	kPa	Joback Method
rinpol	2199.00		NIST Webbook
rinpol	2200.00		NIST Webbook
rinpol	2199.40		NIST Webbook
rinpol	2200.00		NIST Webbook
rinpol	2199.00		NIST Webbook
tb	674.35	K	Joback Method
tc	859.14	K	Joback Method
tf	386.97	K	Joback Method
vc	1.030	m3/kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	778.27	J/molxK	674.35	Joback Method
cpg	799.80	J/molxK	705.15	Joback Method
cpg	820.25	J/molxK	735.95	Joback Method
cpg	839.66	J/molxK	766.75	Joback Method

cpg	858.09	J/mol×K	797.55	Joback Method
cpg	875.56	J/mol×K	828.35	Joback Method
cpg	892.13	J/mol×K	859.14	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=R41726&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=R41726&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>mvol:</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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