

# 3-Sulfanylhexyl Tetradodecanoate

<b>Inchi:</b>	InChI=1S/C20H40O2S/c1-3-5-6-7-8-9-10-11-12-13-14-16-20(21)22-18-17-19(23)15-4-2/
<b>InchiKey:</b>	LMBOHFYTEYIWQI-UHFFFAOYSA-N
<b>Formula:</b>	C20H40O2S
<b>SMILES:</b>	CCCCCCCCCCCC(=O)OCCC(S)CCC
<b>Mol. weight [g/mol]:</b>	344.60

## Physical Properties

Property code	Value	Unit	Source
gf	-89.45	kJ/mol	Joback Method
hf	-667.73	kJ/mol	Joback Method
hfus	50.86	kJ/mol	Joback Method
hvap	75.62	kJ/mol	Joback Method
log10ws	-7.24		Crippen Method
logp	6.719		Crippen Method
mcvol	316.450	ml/mol	McGowan Method
pc	1096.44	kPa	Joback Method
rinsol	2412.00		NIST Webbook
tb	795.71	K	Joback Method
tc	981.41	K	Joback Method
tf	408.78	K	Joback Method
vc	1.228	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	976.31	J/mol×K	795.71	Joback Method
cpg	995.50	J/mol×K	826.66	Joback Method
cpg	1013.64	J/mol×K	857.61	Joback Method
cpg	1030.78	J/mol×K	888.56	Joback Method
cpg	1046.94	J/mol×K	919.51	Joback Method
cpg	1062.14	J/mol×K	950.46	Joback Method
cpg	1076.43	J/mol×K	981.41	Joback Method

# Sources

<b>Crippen Method:</b>	<a href="http://pubs.acs.org/doi/abs/10.1021/ci990307I">http://pubs.acs.org/doi/abs/10.1021/ci990307I</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=R519689&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=R519689&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>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>mccvol:</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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