

# Ethanol, 2-hexadecylthio-

<b>Inchi:</b>	InChI=1S/C18H38OS/c1-2-3-4-5-6-7-8-9-10-11-12-13-14-15-17-20-18-16-19/h19H,2-18H
<b>InchiKey:</b>	PDOIABQTPMOHQQ-UHFFFAOYSA-N
<b>Formula:</b>	C18H38OS
<b>SMILES:</b>	CCCCCCCCCCCCCCCCSCCO
<b>Mol. weight [g/mol]:</b>	302.56
<b>CAS:</b>	23248-47-7

## Physical Properties

Property code	Value	Unit	Source
gf	-3.02	kJ/mol	Joback Method
hf	-525.21	kJ/mol	Joback Method
hfus	50.59	kJ/mol	Joback Method
hvap	79.16	kJ/mol	Joback Method
log10ws	-6.50		Crippen Method
logp	6.193		Crippen Method
mcvol	286.700	ml/mol	McGowan Method
pc	1242.46	kPa	Joback Method
tb	772.20	K	Joback Method
tc	949.73	K	Joback Method
tf	387.84	K	Joback Method
vc	1.117	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	878.17	J/mol×K	772.20	Joback Method
cpg	895.87	J/mol×K	801.79	Joback Method
cpg	912.69	J/mol×K	831.38	Joback Method
cpg	928.66	J/mol×K	860.97	Joback Method
cpg	943.81	J/mol×K	890.55	Joback Method
cpg	958.17	J/mol×K	920.14	Joback Method
cpg	971.78	J/mol×K	949.73	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=C23248477&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=C23248477&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>h vap:</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>m cvol:</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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