

# 1-Mercapto-2-heptadecanone

<b>Inchi:</b>	InChI=1S/C17H34OS/c1-2-3-4-5-6-7-8-9-10-11-12-13-14-15-17(18)16-19/h19H,2-16H2,1
<b>InchiKey:</b>	MNNWFOGLHGABKN-UHFFFAOYSA-N
<b>Formula:</b>	C17H34OS
<b>SMILES:</b>	CCCCCCCCCCCCCCCC(=O)CS
<b>Mol. weight [g/mol]:</b>	286.52
<b>CAS:</b>	76078-79-0

## Physical Properties

Property code	Value	Unit	Source
gf	-7.27	kJ/mol	Joback Method
hf	-468.31	kJ/mol	Joback Method
hfus	45.43	kJ/mol	Joback Method
hvap	66.92	kJ/mol	Joback Method
log10ws	-6.29		Crippen Method
logp	5.967		Crippen Method
mcvol	268.310	ml/mol	McGowan Method
pc	1348.67	kPa	Joback Method
ripol	2397.00		NIST Webbook
ripol	2397.00		NIST Webbook
tb	705.09	K	Joback Method
tc	885.65	K	Joback Method
tf	367.74	K	Joback Method
vc	1.048	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	766.61	J/mol×K	705.09	Joback Method
cpg	784.88	J/mol×K	735.18	Joback Method
cpg	802.26	J/mol×K	765.28	Joback Method
cpg	818.79	J/mol×K	795.37	Joback Method
cpg	834.48	J/mol×K	825.46	Joback Method
cpg	849.38	J/mol×K	855.56	Joback Method
cpg	863.51	J/mol×K	885.65	Joback Method

# Sources

<b>NIST Webbook:</b>	<a href="http://webbook.nist.gov/cgi/cbook.cgi?ID=C76078790&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=C76078790&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>
<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>

# 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>hvp:</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>ripl:</b>	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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