

# 2-[Hexylthio]ethanal

Inchi:	InChI=1S/C8H16OS/c1-2-3-4-5-7-10-8-6-9/h6H,2-5,7-8H2,1H3
InchiKey:	FWYYDAZHINHUBD-UHFFFAOYSA-N
Formula:	C8H16OS
SMILES:	CCCCCSCC=O
Mol. weight [g/mol]:	160.28

## Physical Properties

Property code	Value	Unit	Source
gf	-49.92	kJ/mol	Joback Method
hf	-252.16	kJ/mol	Joback Method
hfus	22.89	kJ/mol	Joback Method
hvap	46.94	kJ/mol	Joback Method
log10ws	-2.34		Crippen Method
logp	2.499		Crippen Method
mvol	141.500	ml/mol	McGowan Method
pc	2784.72	kPa	Joback Method
ripol	1745.00		NIST Webbook
ripol	1745.00		NIST Webbook
tb	499.88	K	Joback Method
tc	690.77	K	Joback Method
tf	256.32	K	Joback Method
vc	0.554	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	308.66	J/mol×K	499.88	Joback Method
cpg	321.40	J/mol×K	531.69	Joback Method
cpg	333.57	J/mol×K	563.51	Joback Method
cpg	345.20	J/mol×K	595.32	Joback Method
cpg	356.28	J/mol×K	627.14	Joback Method
cpg	366.83	J/mol×K	658.95	Joback Method
cpg	376.86	J/mol×K	690.77	Joback Method

# Sources

<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=R402125&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=R402125&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>
<b>Joback Method:</b>	<a href="https://en.wikipedia.org/wiki/Joback_method">https://en.wikipedia.org/wiki/Joback_method</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>mcvol:</b>	McGowan's characteristic volume
<b>pc:</b>	Critical Pressure
<b>ripol:</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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