

# 5-hexyldihydro-2(3H)-thiophenone

Inchi:	InChI=1S/C10H18OS/c1-2-3-4-5-6-9-7-8-10(11)12-9/h9H,2-8H2,1H3
InchiKey:	WNKFQXYZJSZLDQ-UHFFFAOYSA-N
Formula:	C10H18OS
SMILES:	CCCCCCC1CCC(=O)S1
Mol. weight [g/mol]:	186.31

## Physical Properties

Property code	Value	Unit	Source
gf	-12.86	kJ/mol	Joback Method
hf	-281.69	kJ/mol	Joback Method
hfus	18.76	kJ/mol	Joback Method
hvap	48.17	kJ/mol	Joback Method
log10ws	-3.67		Crippen Method
logp	3.379		Crippen Method
mcvol	158.820	ml/mol	McGowan Method
pc	2579.34	kPa	Joback Method
ripol	1534.00		NIST Webbook
ripol	1534.00		NIST Webbook
ripol	2142.00		NIST Webbook
ripol	2142.00		NIST Webbook
tb	559.13	K	Joback Method
tc	776.75	K	Joback Method
tf	365.03	K	Joback Method
vc	0.590	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	387.98	J/molxK	559.13	Joback Method
cpg	405.65	J/molxK	595.40	Joback Method
cpg	422.41	J/molxK	631.67	Joback Method
cpg	438.27	J/molxK	667.94	Joback Method
cpg	453.26	J/molxK	704.21	Joback Method
cpg	467.36	J/molxK	740.48	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=R301438&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=R301438&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>mcvol:</b>	McGowan's characteristic volume
<b>pc:</b>	Critical Pressure
<b>rinpol:</b>	Non-polar retention indices
<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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