

# (R)-(-)-S-Methyl-S-phenylsulfoximine

<b>Inchi:</b>	InChI=1S/C7H9NOS/c1-10(8,9)7-5-3-2-4-6-7/h2-6,8H,1H3/t10-/m0/s1
<b>InchiKey:</b>	YFYIDTVGWCYSEO-JTQLQIEISA-N
<b>Formula:</b>	C7H9NOS
<b>SMILES:</b>	CS(=N)(=O)c1ccccc1
<b>Mol. weight [g/mol]:</b>	155.22
<b>CAS:</b>	60933-65-5

## Physical Properties

Property code	Value	Unit	Source
gf	22.42	kJ/mol	Joback Method
hf	-63.32	kJ/mol	Joback Method
hvap	58.35	kJ/mol	Joback Method
log10ws	-2.40		Crippen Method
logp	1.722		Crippen Method
mcvol	117.930	ml/mol	McGowan Method
tb	527.60	K	Joback Method
tf	300.46	K	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	248.10	J/molxK	527.60	Joback Method
cpg	52.67	J/molxK	100.12	Joback Method
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cpg	52.67	J/molxK	100.12	Joback Method
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cpg	52.67	J/molxK	100.12	Joback Method
cpg	52.67	J/molxK	100.12	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.cheméo.com/doc/models/crippen_log10ws">https://www.cheméo.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=C60933655&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=C60933655&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>hvac:</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>tb:</b>	Normal Boiling Point Temperature
<b>tf:</b>	Normal melting (fusion) point

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