

# Propanal, 2-methyl-2-(methylsulfonyl)-, oxime

<b>Other names:</b>	Propionaldehyde, 2-methyl-2-(methylsulfonyl)-, oxime 2-Methyl-2-(methylsulfonyl)propionaldehyde oxime 2-Methyl-2-(methylsulfonyl)propionaldoxime 2-Methyl-2-(methylsulfonyl)propanal oxime
<b>Inchi:</b>	InChI=1S/C5H11NO3S/c1-5(2,4-6-7)10(3,8)9/h4,7H,1-3H3
<b>InchiKey:</b>	RHHFCOADWJXKCX-UHFFFAOYSA-N
<b>Formula:</b>	C5H11NO3S
<b>SMILES:</b>	CC(C)(C=NO)S(C)(=O)=O
<b>Mol. weight [g/mol]:</b>	165.21
<b>CAS:</b>	14357-44-9

## Physical Properties

Property code	Value	Unit	Source
hf	-678.64	kJ/mol	Joback Method
hvap	64.06	kJ/mol	Joback Method
log10ws	0.32		Crippen Method
logp	0.270		Crippen Method
mcvol	120.950	ml/mol	McGowan Method
pc	4233.04	kPa	Joback Method
tb	527.21	K	Joback Method
tc	714.25	K	Joback Method
tf	382.58 ± 0.20	K	NIST Webbook

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
hfust	27.12	kJ/mol	382.00	NIST Webbook

## Sources

**Crippen Method:** [https://www.chemeo.com/doc/models/crippen\\_log10ws](https://www.chemeo.com/doc/models/crippen_log10ws)

<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=C14357449&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=C14357449&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>

## Legend

<b>hf:</b>	Enthalpy of formation at standard conditions
<b>hfust:</b>	Enthalpy of fusion at a given temperature
<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>tb:</b>	Normal Boiling Point Temperature
<b>tc:</b>	Critical Temperature
<b>tf:</b>	Normal melting (fusion) point

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