

# Acetamide, N-methyl-2-(methylamino)-2-thio-

<b>Other names:</b>	(N-Methylthiocarbamoyl)-N-methylformamide n,n'-Dimethylthioxamide Oxamide, N,N'-dimethylthio- N,N'-Dimethylmonothiooxamide N-Methyl-2-(methylamino)-2-thioacetamide
<b>Inchi:</b>	InChI=1S/C4H8N2OS/c1-5-3(7)4(8)6-2/h1-2H3,(H,5,7)(H,6,8)
<b>InchiKey:</b>	HEMSCUWUWNUODL-UHFFFAOYSA-N
<b>Formula:</b>	C4H8N2OS
<b>SMILES:</b>	CNC(=O)C(=S)NC
<b>Mol. weight [g/mol]:</b>	132.18
<b>CAS:</b>	38762-37-7

## Physical Properties

Property code	Value	Unit	Source
gf	149.72	kJ/mol	Joback Method
hf	14.97	kJ/mol	Joback Method
hfus	22.52	kJ/mol	Joback Method
hvap	50.84	kJ/mol	Joback Method
log10ws	-0.50		Crippen Method
logp	-0.721		Crippen Method
mcvol	100.800	ml/mol	McGowan Method
pc	4952.36	kPa	Joback Method
tb	515.17	K	Joback Method
tc	730.27	K	Joback Method
tf	324.36	K	Joback Method
vc	0.371	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	206.55	J/mol×K	515.17	Joback Method
cpg	214.87	J/mol×K	551.02	Joback Method
cpg	222.60	J/mol×K	586.87	Joback Method
cpg	229.79	J/mol×K	622.72	Joback Method

cpg	236.48	J/mol×K	658.57	Joback Method
cpg	242.71	J/mol×K	694.42	Joback Method
cpg	248.53	J/mol×K	730.27	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=C38762377&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=C38762377&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>

## 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>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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