

# Hydrazinecarbothioamide, 2-(1-methylethylidene)-

<b>Other names:</b>	Acetone, thiosemicarbazone Thiosemicarbazone acetone Acetonthiosemikarbazon 2-(1-Methylethylidene)hydrazinecarbothioamide
<b>Inchi:</b>	InChI=1S/C4H9N3S/c1-3(2)6-7-4(5)8/h1-2H3,(H3,5,7,8)
<b>InchiKey:</b>	FQUDPIIGGVVBZEQ-UHFFFAOYSA-N
<b>Formula:</b>	C4H9N3S
<b>SMILES:</b>	CC(C)=NNC(N)=S
<b>Mol. weight [g/mol]:</b>	131.20
<b>CAS:</b>	1752-30-3

## Physical Properties

Property code	Value	Unit	Source
chs	-3483.00	kJ/mol	NIST Webbook
hf	180.30	kJ/mol	Joback Method
hfs	21.00 ± 3.00	kJ/mol	NIST Webbook
hvap	51.70	kJ/mol	Joback Method
log10ws	-1.62		Crippen Method
logp	0.215		Crippen Method
mcvol	104.910	ml/mol	McGowan Method
pc	4216.56	kPa	Joback Method
tb	560.22	K	Joback Method
tc	798.71	K	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.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>
<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=C1752303&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=C1752303&amp;Units=SI</a>

# Legend

<b>chs:</b>	Standard solid enthalpy of combustion
<b>hf:</b>	Enthalpy of formation at standard conditions
<b>hfs:</b>	Solid phase enthalpy of formation at standard conditions
<b>h<sub>vap</sub>:</b>	Enthalpy of vaporization at standard conditions
<b>log<sub>10</sub>ws:</b>	Log <sub>10</sub> of Water solubility in mol/l
<b>log<sub>p</sub>:</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

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