

# N'-methylacetohydrazide

<b>Other names:</b>	Acetic acid, 2-methylhydrazide
<b>Inchi:</b>	InChI=1S/C3H8N2O/c1-3(6)5-4-2/h4H,1-2H3,(H,5,6)
<b>InchiKey:</b>	OMMMMWZZJZZMLV-UHFFFAOYSA-N
<b>Formula:</b>	C3H8N2O
<b>SMILES:</b>	CNNC(C)=O
<b>Mol. weight [g/mol]:</b>	88.11
<b>CAS:</b>	29817-35-4

## Physical Properties

Property code	Value	Unit	Source
gf	24.24	kJ/mol	Joback Method
hf	-110.89	kJ/mol	Joback Method
hfus	15.32	kJ/mol	Joback Method
hvap	41.89	kJ/mol	Joback Method
log10ws	-0.22		Crippen Method
logp	-0.743		Crippen Method
mcvol	74.660	ml/mol	McGowan Method
pc	4980.35	kPa	Joback Method
tb	422.25	K	Joback Method
tc	612.72	K	Joback Method
tf	278.82	K	Joback Method
vc	0.280	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	143.48	J/mol×K	422.25	Joback Method
cpg	151.21	J/mol×K	453.99	Joback Method
cpg	158.59	J/mol×K	485.74	Joback Method
cpg	165.65	J/mol×K	517.48	Joback Method
cpg	172.37	J/mol×K	549.23	Joback Method
cpg	178.78	J/mol×K	580.97	Joback Method
cpg	184.88	J/mol×K	612.72	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=C29817354&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=C29817354&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>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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