

# Hydrazinecarboxylic acid, methyl ester

<b>Other names:</b>	Carbamic acid, methyl ester (Methoxycarbonyl)hydrazine Carbomethoxyhydrazide Methyl carbazate Methyl hydrazinecarboxylate Methyl hydrazinocarboxylate Methyl hydrazinofornate Methoxy carbonyl hydrazide
<b>Inchi:</b>	InChI=1S/C2H6N2O2/c1-6-2(5)4-3/h3H2,1H3,(H,4,5)
<b>InchiKey:</b>	WFJRIDQGVJSJLLH-UHFFFAOYSA-N
<b>Formula:</b>	C2H6N2O2
<b>SMILES:</b>	COC(=O)NN
<b>Mol. weight [g/mol]:</b>	90.08
<b>CAS:</b>	6294-89-9

## Physical Properties

Property code	Value	Unit	Source
gf	-112.12	kJ/mol	Joback Method
hf	-242.15	kJ/mol	Joback Method
hfus	14.02	kJ/mol	Joback Method
hvap	46.28	kJ/mol	Joback Method
log10ws	-0.11		Crippen Method
logp	-0.784		Crippen Method
mcvol	66.440	ml/mol	McGowan Method
pc	5972.16	kPa	Joback Method
tb	444.15	K	Joback Method
tc	646.18	K	Joback Method
tf	320.38	K	Joback Method
vc	0.235	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	134.19	J/molxK	444.15	Joback Method

cpg	140.19	J/mol×K	477.82	Joback Method
cpg	145.98	J/mol×K	511.49	Joback Method
cpg	151.57	J/mol×K	545.16	Joback Method
cpg	156.93	J/mol×K	578.83	Joback Method
cpg	162.07	J/mol×K	612.51	Joback Method
cpg	166.98	J/mol×K	646.18	Joback Method

## Pressure Dependent Properties

Property code	Value	Unit	Pressure [kPa]	Source
tbrp	381.20	K	1.60	NIST Webbook

## 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=C6294899&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=C6294899&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>mccvol:</b>	McGowan's characteristic volume
<b>pc:</b>	Critical Pressure
<b>tb:</b>	Normal Boiling Point Temperature
<b>tbrp:</b>	Boiling point at reduced pressure
<b>tc:</b>	Critical Temperature
<b>tf:</b>	Normal melting (fusion) point

**vc:** Critical Volume

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