

# Aminoacetaldehyde dimethyl acetal

<b>Other names:</b>	Ethanamine, 2,2-dimethoxy- Acetaldehyde, amino-, dimethyl acetal 2,2-Dimethoxyethanamine 2,2-Dimethoxyethylamine
<b>Inchi:</b>	InChI=1S/C4H11NO2/c1-6-4(3-5)7-2/h4H,3,5H2,1-2H3
<b>InchiKey:</b>	QKWWDTYDYOFRJL-UHFFFAOYSA-N
<b>Formula:</b>	C4H11NO2
<b>SMILES:</b>	COC(CN)OC
<b>Mol. weight [g/mol]:</b>	105.14
<b>CAS:</b>	22483-09-6

## Physical Properties

Property code	Value	Unit	Source
gf	-163.19	kJ/mol	Joback Method
hf	-361.82	kJ/mol	Joback Method
hfus	10.17	kJ/mol	Joback Method
hvap	39.57	kJ/mol	Joback Method
log10ws	0.29		Crippen Method
logp	-0.436		Crippen Method
mcvol	88.940	ml/mol	McGowan Method
pc	4051.80	kPa	Joback Method
tb	409.00	K	NIST Webbook
tc	594.18	K	Joback Method
tf	247.56	K	Joback Method
vc	0.319	m3/kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	180.40	J/molxK	407.85	Joback Method
cpg	188.96	J/molxK	438.90	Joback Method
cpg	197.34	J/molxK	469.96	Joback Method
cpg	205.51	J/molxK	501.01	Joback Method
cpg	213.46	J/molxK	532.07	Joback Method

cpg	221.18	J/mol×K	563.12	Joback Method
cpg	228.66	J/mol×K	594.18	Joback Method

## Pressure Dependent Properties

Property code	Value	Unit	Pressure [kPa]	Source
tbrp	410.20	K	13.00	NIST Webbook

## 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=C22483096&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=C22483096&amp;Units=SI</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>tbrp:</b>	Boiling point at reduced pressure
<b>tc:</b>	Critical Temperature
<b>tf:</b>	Normal melting (fusion) point
<b>vc:</b>	Critical Volume

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