

# Ethanamine, 2-methoxy-

Other names:	1-Amino-2-methoxyethane 1-Methoxy-2-aminoethane 2-Aminoethyl methyl ether 2-Methoxy-1-ethanamine 2-Methoxyethanamine 2-methoxyethylamine CH3OCH2CH2NH2 Ethylamine, 2-methoxy- Methoxyethylamine «beta»-Methoxyethylamine
Inchi:	InChI=1S/C3H9NO/c1-5-3-2-4/h2-4H2,1H3
InchiKey:	ASUDFOJKTJLAIK-UHFFFAOYSA-N
Formula:	C3H9NO
SMILES:	COCCN
Mol. weight [g/mol]:	75.11
CAS:	109-85-3

## Physical Properties

Property code	Value	Unit	Source
affp	928.60	kJ/mol	NIST Webbook
basg	894.60	kJ/mol	NIST Webbook
gf	-64.17	kJ/mol	Joback Method
hf	-203.68	kJ/mol	Joback Method
hfus	9.91	kJ/mol	Joback Method
hvap	35.32	kJ/mol	Joback Method
ie	9.45 ± 0.09	eV	NIST Webbook
ie	9.40	eV	NIST Webbook
ie	8.90	eV	NIST Webbook
log10ws	0.40		Crippen Method
logp	-0.408		Crippen Method
mcvol	68.980	ml/mol	McGowan Method
pc	4652.99	kPa	Joback Method
tb	368.20	K	NIST Webbook
tc	545.77	K	Joback Method
tf	229.06	K	Joback Method
vc	0.251	m3/kmol	Joback Method

# Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	126.14	J/mol×K	362.99	Joback Method
cpg	132.99	J/mol×K	393.45	Joback Method
cpg	139.66	J/mol×K	423.92	Joback Method
cpg	146.16	J/mol×K	454.38	Joback Method
cpg	152.48	J/mol×K	484.84	Joback Method
cpg	158.61	J/mol×K	515.31	Joback Method
cpg	164.55	J/mol×K	545.77	Joback Method
hvapt	38.80	kJ/mol	298.00	NIST Webbook
pvap	2.51	kPa	280.47	Vapor Pressure and Its Temperature Dependence of 28 Organic Compounds: Cyclic Amines, Cyclic Ethers, and Cyclic and Open Chain Secondary Alcohols
pvap	1.81	kPa	275.16	Vapor Pressure and Its Temperature Dependence of 28 Organic Compounds: Cyclic Amines, Cyclic Ethers, and Cyclic and Open Chain Secondary Alcohols
pvap	3.55	kPa	286.36	Vapor Pressure and Its Temperature Dependence of 28 Organic Compounds: Cyclic Amines, Cyclic Ethers, and Cyclic and Open Chain Secondary Alcohols

pvap	4.48	kPa	290.46	Vapor Pressure and Its Temperature Dependence of 28 Organic Compounds: Cyclic Amines, Cyclic Ethers, and Cyclic and Open Chain Secondary Alcohols
pvap	5.68	kPa	294.84	Vapor Pressure and Its Temperature Dependence of 28 Organic Compounds: Cyclic Amines, Cyclic Ethers, and Cyclic and Open Chain Secondary Alcohols
pvap	6.75	kPa	298.14	Vapor Pressure and Its Temperature Dependence of 28 Organic Compounds: Cyclic Amines, Cyclic Ethers, and Cyclic and Open Chain Secondary Alcohols
pvap	6.94	kPa	298.64	Vapor Pressure and Its Temperature Dependence of 28 Organic Compounds: Cyclic Amines, Cyclic Ethers, and Cyclic and Open Chain Secondary Alcohols
pvap	8.66	kPa	302.99	Vapor Pressure and Its Temperature Dependence of 28 Organic Compounds: Cyclic Amines, Cyclic Ethers, and Cyclic and Open Chain Secondary Alcohols

pvap	11.06	kPa	307.98	Vapor Pressure and Its Temperature Dependence of 28 Organic Compounds: Cyclic Amines, Cyclic Ethers, and Cyclic and Open Chain Secondary Alcohols
pvap	13.77	kPa	312.65	Vapor Pressure and Its Temperature Dependence of 28 Organic Compounds: Cyclic Amines, Cyclic Ethers, and Cyclic and Open Chain Secondary Alcohols
pvap	17.25	kPa	317.60	Vapor Pressure and Its Temperature Dependence of 28 Organic Compounds: Cyclic Amines, Cyclic Ethers, and Cyclic and Open Chain Secondary Alcohols

## Pressure Dependent Properties

Property code	Value	Unit	Pressure [kPa]	Source
tbrp	368.20	K	101.00	NIST Webbook

## Sources

Joback Method:	<a href="https://en.wikipedia.org/wiki/Joback_method">https://en.wikipedia.org/wiki/Joback_method</a>
McGowan Method:	<a href="http://link.springer.com/article/10.1007/BF02311772">http://link.springer.com/article/10.1007/BF02311772</a>
NIST Webbook:	<a href="http://webbook.nist.gov/cgi/cbook.cgi?ID=C109853&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=C109853&amp;Units=SI</a>
Crippen Method:	<a href="http://pubs.acs.org/doi/abs/10.1021/ci990307I">http://pubs.acs.org/doi/abs/10.1021/ci990307I</a>
Crippen Method:	<a href="https://www.chemeo.com/doc/models/crippen_log10ws">https://www.chemeo.com/doc/models/crippen_log10ws</a>

## Legend

<b>affp:</b>	Proton affinity
<b>basg:</b>	Gas basicity
<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>hvapt:</b>	Enthalpy of vaporization at a given temperature
<b>ie:</b>	Ionization energy
<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>pvap:</b>	Vapor 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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