

# 2-Propanol, 1-methoxy-

<b>Other names:</b>	1-Methoxy-2-hydroxypropane 1-Methoxypropan-2-ol 1-methoxy-2-propanol 2-Methoxy-1-methylethanol Closol Dowanol-33B Dowtherm 209 Glycol ether pm Icinol PM Methoxyisopropanol Methoxypropanol, «alpha» isomer NSC 2409 PGME Poly-solv MPM Poly-solve MPM Propan-1-methoxy-2-ol Propan-2-ol, 1-methoxy- Propasol solvent M Propylene glycol 1-methyl ether Solvent PM Ucar solvent lm propylene glycol monomethyl ether «alpha»-Propylene glycol monomethyl ether
<b>Inchi:</b>	InChI=1S/C4H10O2/c1-4(5)3-6-2/h4-5H,3H2,1-2H3
<b>InchiKey:</b>	ARXJGSRGQADJSQ-UHFFFAOYSA-N
<b>Formula:</b>	C4H10O2
<b>SMILES:</b>	COCC(C)O
<b>Mol. weight [g/mol]:</b>	90.12
<b>CAS:</b>	107-98-2

## Physical Properties

Property code	Value	Unit	Source
gf	-261.46	kJ/mol	Joback Method
hf	-415.62	kJ/mol	Joback Method

hfus	3.61	kJ/mol	Solid-Liquid Equilibria for Binary Organic Systems Containing 1-Methoxy-2-propanol and 2-Butoxy Ethanol
hvap	46.40	kJ/mol	NIST Webbook
hvap	46.20	kJ/mol	NIST Webbook
log10ws	0.04		Crippen Method
logp	0.014		Crippen Method
mcvol	78.960	ml/mol	McGowan Method
pc	$4113.00 \pm 10.00$	kPa	NIST Webbook
rinpol	658.00		NIST Webbook
rinpol	649.00		NIST Webbook
rinpol	673.00		NIST Webbook
rinpol	673.00		NIST Webbook
rinpol	636.00		NIST Webbook
rinpol	634.00		NIST Webbook
rinpol	672.00		NIST Webbook
rinpol	673.40		NIST Webbook
rinpol	669.00		NIST Webbook
rinpol	673.20		NIST Webbook
ripol	1146.90		NIST Webbook
ripol	1135.00		NIST Webbook
ripol	1108.00		NIST Webbook
ripol	1131.00		NIST Webbook
ripol	1160.00		NIST Webbook
tb	393.15	K	Isobaric Vapor Liquid Equilibria for (Water + 1-Methoxy-2-propanol), (Water + 2-Methoxy-1-propanol), and (1-Methoxy-2-propanol + 2-Methoxy-1-propanol) at 101.3 kPa
tb	391.70	K	NIST Webbook
tb	393.30	K	Isobaric vapor-liquid equilibria of the binary mixtures propylene glycol methyl ether + propylene glycol methyl ether acetate, methyl acetate + propylene glycol methyl ether and methanol + propylene glycol methyl ether acetate at 101.3 kPa
tb	394.15	K	NIST Webbook
tc	$579.80 \pm 0.30$	K	NIST Webbook
tf	202.89	K	Joback Method
vc	0.290	m3/kmol	Joback Method

# Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	175.56	J/mol×K	488.15	Joback Method
cpg	168.81	J/mol×K	460.46	Joback Method
cpg	161.85	J/mol×K	432.77	Joback Method
cpg	154.70	J/mol×K	405.08	Joback Method
cpg	194.63	J/mol×K	571.21	Joback Method
cpg	188.48	J/mol×K	543.52	Joback Method
cpg	182.12	J/mol×K	515.84	Joback Method
dvisc	0.0010690	Paxs	318.15	Excess Molar Volumes and Viscosities for Binary Mixtures of Propylene Glycol Monomethyl Ether with Methacrylic Acid, Benzyl Methacrylate, and 2-Hydroxyethyl Methacrylate at (298.15, 308.15, and 318.15) K
dvisc	0.0013060	Paxs	308.15	Excess Molar Volumes and Viscosities for Binary Mixtures of Propylene Glycol Monomethyl Ether with Methacrylic Acid, Benzyl Methacrylate, and 2-Hydroxyethyl Methacrylate at (298.15, 308.15, and 318.15) K

dvisc	0.0017070	Paxs	298.15	Excess Molar Volumes and Viscosities for Binary Mixtures of Propylene Glycol Monomethyl Ether with Methacrylic Acid, Benzyl Methacrylate, and 2-Hydroxyethyl Methacrylate at (298.15, 308.15, and 318.15) K
pvap	739.81	kPa	473.15	Vapor Liquid Equilibrium for Several Compounds Relevant to the Biofuels Industry Modeled with the Wilson Equation
pvap	61.89	kPa	378.01	Vapor-Liquid Equilibrium for Propylene Glycol + 2-(2-Hexyloxyethoxy)ethanol and 1-Methyl-2-pyrrolidone + 1-Methoxypropan-2-ol
pvap	52.30	kPa	373.22	Vapor-Liquid Equilibrium for Propylene Glycol + 2-(2-Hexyloxyethoxy)ethanol and 1-Methyl-2-pyrrolidone + 1-Methoxypropan-2-ol
pvap	52.16	kPa	373.15	Vapor-Liquid Equilibrium for Propylene Glycol + 2-(2-Hexyloxyethoxy)ethanol and 1-Methyl-2-pyrrolidone + 1-Methoxypropan-2-ol
pvap	43.29	kPa	368.03	Vapor-Liquid Equilibrium for Propylene Glycol + 2-(2-Hexyloxyethoxy)ethanol and 1-Methyl-2-pyrrolidone + 1-Methoxypropan-2-ol

pvap	36.03	kPa	363.15	Vapor-Liquid Equilibrium for Propylene Glycol + 2-(2-Hexyloxyethoxy)ethanol and 1-Methyl-2-pyrrolidone + 1-Methoxypropan-2-ol
pvap	35.72	kPa	362.93	Vapor-Liquid Equilibrium for Propylene Glycol + 2-(2-Hexyloxyethoxy)ethanol and 1-Methyl-2-pyrrolidone + 1-Methoxypropan-2-ol
pvap	29.35	kPa	357.89	Vapor-Liquid Equilibrium for Propylene Glycol + 2-(2-Hexyloxyethoxy)ethanol and 1-Methyl-2-pyrrolidone + 1-Methoxypropan-2-ol
pvap	24.25	kPa	353.15	Vapor-Liquid Equilibrium for Propylene Glycol + 2-(2-Hexyloxyethoxy)ethanol and 1-Methyl-2-pyrrolidone + 1-Methoxypropan-2-ol
pvap	3.61	kPa	313.15	Vapor-Liquid Equilibria on Four Binary Systems: 2-Phenylpropionaldehyde + Phenol, Propylene Glycol Monomethyl Ether + Nitroethane, Dimethyl Ether + Propylene, and N-Butyric Acid + Propionic Acid
pvap	24.18	kPa	353.15	Vapor-Liquid Equilibria on Four Binary Systems: 2-Phenylpropionaldehyde + Phenol, Propylene Glycol Monomethyl Ether + Nitroethane, Dimethyl Ether + Propylene, and N-Butyric Acid + Propionic Acid

pvap	50.45	kPa	373.15	Vapor Liquid Equilibrium for Several Compounds Relevant to the Biofuels Industry Modeled with the Wilson Equation
pvap	23.74	kPa	352.64	Vapor-Liquid Equilibrium for Propylene Glycol + 2-(2-Hexyloxyethoxy)ethanol and 1-Methyl-2-pyrrolidone + 1-Methoxypropan-2-ol
pvap	232.93	kPa	423.15	Vapor Liquid Equilibrium for Several Compounds Relevant to the Biofuels Industry Modeled with the Wilson Equation
pvap	48.26	kPa	373.15	Vapor Liquid Equilibrium for Several Compounds Relevant to the Biofuels Industry Modeled with the Wilson Equation
pvap	230.60	kPa	423.15	Vapor Liquid Equilibrium for Several Compounds Relevant to the Biofuels Industry Modeled with the Wilson Equation
pvap	48.55	kPa	373.15	Vapor Liquid Equilibrium for Several Compounds Relevant to the Biofuels Industry Modeled with the Wilson Equation
pvap	232.13	kPa	423.15	Vapor Liquid Equilibrium for Several Compounds Relevant to the Biofuels Industry Modeled with the Wilson Equation

pvap	231.95	kPa	423.15	Vapor Liquid Equilibrium for Several Compounds Relevant to the Biofuels Industry Modeled with the Wilson Equation
pvap	26.70	kPa	355.83	Isobaric vapor liquid equilibria for water + propylene glycol monomethyl ether (PGME), water + propyleneglycol monomethyl ether acetate (PGMEA), and PGME+PGMEA at reduced pressures
pvap	40.00	kPa	365.99	Isobaric vapor liquid equilibria for water + propylene glycol monomethyl ether (PGME), water + propyleneglycol monomethyl ether acetate (PGMEA), and PGME+PGMEA at reduced pressures
pvap	53.30	kPa	373.87	Isobaric vapor liquid equilibria for water + propylene glycol monomethyl ether (PGME), water + propyleneglycol monomethyl ether acetate (PGMEA), and PGME+PGMEA at reduced pressures
pvap	66.70	kPa	380.27	Isobaric vapor liquid equilibria for water + propylene glycol monomethyl ether (PGME), water + propyleneglycol monomethyl ether acetate (PGMEA), and PGME+PGMEA at reduced pressures

pvap	80.00	kPa	385.71	Isobaric vapor liquid equilibria for water + propylene glycol monomethyl ether (PGME), water + propyleneglycol monomethyl ether acetate (PGMEA), and PGME+PGMEA at reduced pressures
pvap	93.30	kPa	390.45	Isobaric vapor liquid equilibria for water + propylene glycol monomethyl ether (PGME), water + propyleneglycol monomethyl ether acetate (PGMEA), and PGME+PGMEA at reduced pressures
pvap	98.70	kPa	392.20	Isobaric vapor liquid equilibria for water + propylene glycol monomethyl ether (PGME), water + propyleneglycol monomethyl ether acetate (PGMEA), and PGME+PGMEA at reduced pressures
pvap	15.00	kPa	342.30	Supplementary vapor pressure data of the glycol ethers, 1-methoxy-2-propanol, and 2-methoxyethanol at a pressure range of (15 to 177) kPa
pvap	23.50	kPa	352.50	Supplementary vapor pressure data of the glycol ethers, 1-methoxy-2-propanol, and 2-methoxyethanol at a pressure range of (15 to 177) kPa

pvap	32.00	kPa	360.10	Supplementary vapor pressure data of the glycol ethers, 1-methoxy-2-propanol, and 2-methoxyethanol at a pressure range of (15 to 177) kPa
pvap	42.10	kPa	367.40	Supplementary vapor pressure data of the glycol ethers, 1-methoxy-2-propanol, and 2-methoxyethanol at a pressure range of (15 to 177) kPa
pvap	49.10	kPa	371.60	Supplementary vapor pressure data of the glycol ethers, 1-methoxy-2-propanol, and 2-methoxyethanol at a pressure range of (15 to 177) kPa
pvap	57.60	kPa	376.00	Supplementary vapor pressure data of the glycol ethers, 1-methoxy-2-propanol, and 2-methoxyethanol at a pressure range of (15 to 177) kPa
pvap	66.10	kPa	380.00	Supplementary vapor pressure data of the glycol ethers, 1-methoxy-2-propanol, and 2-methoxyethanol at a pressure range of (15 to 177) kPa
pvap	74.60	kPa	383.50	Supplementary vapor pressure data of the glycol ethers, 1-methoxy-2-propanol, and 2-methoxyethanol at a pressure range of (15 to 177) kPa

pvap	52.31	kPa	373.31	Vapor-Liquid Equilibrium for Acetonitrile + Propanenitrile and 1-Pantanamine + 1-Methoxy-2-propanol
pvap	92.60	kPa	390.10	Supplementary vapor pressure data of the glycol ethers, 1-methoxy-2-propanol, and 2-methoxyethanol at a pressure range of (15 to 177) kPa
pvap	99.90	kPa	392.80	Supplementary vapor pressure data of the glycol ethers, 1-methoxy-2-propanol, and 2-methoxyethanol at a pressure range of (15 to 177) kPa
pvap	116.90	kPa	397.90	Supplementary vapor pressure data of the glycol ethers, 1-methoxy-2-propanol, and 2-methoxyethanol at a pressure range of (15 to 177) kPa
pvap	125.50	kPa	400.00	Supplementary vapor pressure data of the glycol ethers, 1-methoxy-2-propanol, and 2-methoxyethanol at a pressure range of (15 to 177) kPa
pvap	134.00	kPa	402.20	Supplementary vapor pressure data of the glycol ethers, 1-methoxy-2-propanol, and 2-methoxyethanol at a pressure range of (15 to 177) kPa

pvap	142.50	kPa	404.30	Supplementary vapor pressure data of the glycol ethers, 1-methoxy-2-propanol, and 2-methoxyethanol at a pressure range of (15 to 177) kPa
pvap	151.00	kPa	406.30	Supplementary vapor pressure data of the glycol ethers, 1-methoxy-2-propanol, and 2-methoxyethanol at a pressure range of (15 to 177) kPa
pvap	159.50	kPa	408.20	Supplementary vapor pressure data of the glycol ethers, 1-methoxy-2-propanol, and 2-methoxyethanol at a pressure range of (15 to 177) kPa
pvap	168.00	kPa	410.00	Supplementary vapor pressure data of the glycol ethers, 1-methoxy-2-propanol, and 2-methoxyethanol at a pressure range of (15 to 177) kPa
pvap	176.50	kPa	411.80	Supplementary vapor pressure data of the glycol ethers, 1-methoxy-2-propanol, and 2-methoxyethanol at a pressure range of (15 to 177) kPa
pvap	101.30	kPa	393.15	Isobaric Vapor Liquid Equilibria for (Water + 1-Methoxy-2-propanol), (Water + 2-Methoxy-1-propanol), and (1-Methoxy-2-propanol + 2-Methoxy-1-propanol) at 101.3 kPa

pvap	9.25	kPa	331.47	Vapor-Liquid Equilibrium for Acetonitrile + Propanenitrile and 1-Pantanamine + 1-Methoxy-2-propanol
pvap	10.01	kPa	333.15	Vapor-Liquid Equilibrium for Acetonitrile + Propanenitrile and 1-Pantanamine + 1-Methoxy-2-propanol
pvap	13.11	kPa	339.12	Vapor-Liquid Equilibrium for Acetonitrile + Propanenitrile and 1-Pantanamine + 1-Methoxy-2-propanol
pvap	15.79	kPa	343.15	Vapor-Liquid Equilibrium for Acetonitrile + Propanenitrile and 1-Pantanamine + 1-Methoxy-2-propanol
pvap	19.25	kPa	347.71	Vapor-Liquid Equilibrium for Acetonitrile + Propanenitrile and 1-Pantanamine + 1-Methoxy-2-propanol
pvap	22.64	kPa	351.56	Vapor-Liquid Equilibrium for Acetonitrile + Propanenitrile and 1-Pantanamine + 1-Methoxy-2-propanol
pvap	24.17	kPa	353.15	Vapor-Liquid Equilibrium for Acetonitrile + Propanenitrile and 1-Pantanamine + 1-Methoxy-2-propanol
pvap	26.69	kPa	355.59	Vapor-Liquid Equilibrium for Acetonitrile + Propanenitrile and 1-Pantanamine + 1-Methoxy-2-propanol
pvap	29.57	kPa	358.15	Vapor-Liquid Equilibrium for Acetonitrile + Propanenitrile and 1-Pantanamine + 1-Methoxy-2-propanol

pvap	32.79	kPa	360.78	Vapor-Liquid Equilibrium for Acetonitrile + Propanenitrile and 1-Pantanamine + 1-Methoxy-2-propanol
pvap	35.74	kPa	363.01	Vapor-Liquid Equilibrium for Acetonitrile + Propanenitrile and 1-Pantanamine + 1-Methoxy-2-propanol
pvap	43.48	kPa	368.23	Vapor-Liquid Equilibrium for Acetonitrile + Propanenitrile and 1-Pantanamine + 1-Methoxy-2-propanol
pvap	83.30	kPa	386.90	Supplementary vapor pressure data of the glycol ethers, 1-methoxy-2-propanol, and 2-methoxyethanol at a pressure range of (15 to 177) kPa
pvap	19.25	kPa	347.62	Vapor-Liquid Equilibrium for Propylene Glycol + 2-(2-Hexyloxyethoxy)ethanol and 1-Methyl-2-pyrrolidone + 1-Methoxypropan-2-ol
rfi	1.40100		298.15	Density, Speed of Sound, and Refractive Index of Aqueous Binary Mixtures of Some Glycol Ethers at T = 298.15 K
speedsl	231.80	m/s	558.23	Speed of Sound Measurement in 1-Methoxy-2-propanol from (306.81 to 648.29) K and up to 10 MPa

speedsl	1243.03	m/s	303.15	Densities and Speeds of Sound of Binary Liquid Mixtures of Some n-Alkoxypropanols with Methyl Acetate, Ethyl Acetate, and n-Butyl Acetate at T = (288.15, 293.15, 298.15, 303.15, and 308.15) K
speedsl	1261.54	m/s	298.15	Densities and Speeds of Sound of Binary Liquid Mixtures of Some n-Alkoxypropanols with Methyl Acetate, Ethyl Acetate, and n-Butyl Acetate at T = (288.15, 293.15, 298.15, 303.15, and 308.15) K
speedsl	1280.08	m/s	293.15	Densities and Speeds of Sound of Binary Liquid Mixtures of Some n-Alkoxypropanols with Methyl Acetate, Ethyl Acetate, and n-Butyl Acetate at T = (288.15, 293.15, 298.15, 303.15, and 308.15) K
speedsl	1298.14	m/s	288.15	Densities and Speeds of Sound of Binary Liquid Mixtures of Some n-Alkoxypropanols with Methyl Acetate, Ethyl Acetate, and n-Butyl Acetate at T = (288.15, 293.15, 298.15, 303.15, and 308.15) K
speedsl	104.80	m/s	577.92	Speed of Sound Measurement in 1-Methoxy-2-propanol from (306.81 to 648.29) K and up to 10 MPa
speedsl	138.70	m/s	573.29	Speed of Sound Measurement in 1-Methoxy-2-propanol from (306.81 to 648.29) K and up to 10 MPa

speedsl	204.20	m/s	563.74	Speed of Sound Measurement in 1-Methoxy-2-propanol from (306.81 to 648.29) K and up to 10 MPa
speedsl	1224.50	m/s	308.15	Densities and Speeds of Sound of Binary Liquid Mixtures of Some n-Alkoxypropanols with Methyl Acetate, Ethyl Acetate, and n-Butyl Acetate at T = (288.15, 293.15, 298.15, 303.15, and 308.15) K
speedsl	260.70	m/s	553.70	Speed of Sound Measurement in 1-Methoxy-2-propanol from (306.81 to 648.29) K and up to 10 MPa
speedsl	304.10	m/s	542.86	Speed of Sound Measurement in 1-Methoxy-2-propanol from (306.81 to 648.29) K and up to 10 MPa
speedsl	384.10	m/s	524.99	Speed of Sound Measurement in 1-Methoxy-2-propanol from (306.81 to 648.29) K and up to 10 MPa
speedsl	486.90	m/s	500.92	Speed of Sound Measurement in 1-Methoxy-2-propanol from (306.81 to 648.29) K and up to 10 MPa
speedsl	572.30	m/s	479.45	Speed of Sound Measurement in 1-Methoxy-2-propanol from (306.81 to 648.29) K and up to 10 MPa
speedsl	670.70	m/s	453.43	Speed of Sound Measurement in 1-Methoxy-2-propanol from (306.81 to 648.29) K and up to 10 MPa
speedsl	744.50	m/s	434.19	Speed of Sound Measurement in 1-Methoxy-2-propanol from (306.81 to 648.29) K and up to 10 MPa



<b>dvisc:</b>	Dynamic viscosity
<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>pvap:</b>	Vapor pressure
<b>rfi:</b>	Refractive Index
<b>rinpol:</b>	Non-polar retention indices
<b>ripol:</b>	Polar retention indices
<b>speedsl:</b>	Speed of sound in fluid
<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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