1-Methoxy-2-propyl acetate

Other names: 1-Methoxy-2-propanol acetate

1-methoxy-2-acetoxypropane
2-(1-Methoxy)propyl acetate
2-Methoxy-1-methylethyl acetate
2-Propanol, 1-methoxy-, 2-acetate

2-acetoxy-1-methoxypropane 2-propanol, 1-methoxy-, acetate

Acetic acid, 2-methoxy-1-methylethyl ester

Arcosolv PMA Dowanol PMA

Ektasolve PM Acetate

NSC 2207 PGMEA

Propylene glycol 1-methyl ether 2-acetate Propyleneglycol monomethyl ether acetate propylene glycol 1-monomethyl ether acetate

Inchi: InChl=1S/C6H12O3/c1-5(4-8-3)9-6(2)7/h5H,4H2,1-3H3

InchiKey: LLHKCFNBLRBOGN-UHFFFAOYSA-N

Formula: C6H12O3

SMILES: COCC(C)OC(C)=O

Mol. weight [g/mol]: 132.16 CAS: 108-65-6

Physical Properties

Property code	Value	Unit	Source
gf	-341.72	kJ/mol	Joback Method
hf	-549.47	kJ/mol	Joback Method
hfus	11.75	kJ/mol	Joback Method
hvap	40.13	kJ/mol	Joback Method
log10ws	-0.40		Crippen Method
logp	0.584		Crippen Method
mcvol	108.710	ml/mol	McGowan Method
рс	3010.00 ± 20.00	kPa	NIST Webbook
rinpol	843.00		NIST Webbook
rinpol	914.00		NIST Webbook
rinpol	857.30		NIST Webbook
rinpol	870.00		NIST Webbook

ripol	1228.00		NIST Webbook
ripol	1228.00		NIST Webbook
ripol	1238.30		NIST Webbook
tb	419.00	К	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	418.65	К	Solubilities of carbon dioxide in 2-methoxyethyl acetate, 1-methoxy-2-propyl acetate and 3-methoxybutyl acetate
tb	418.50 ± 0.50	K	NIST Webbook
tc	597.90 ± 1.00	K	NIST Webbook
tf	236.77	K	Joback Method
VC	0.407	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source	
cpg	221.96	J/mol×K	434.95	Joback Method	
cpg	231.96	J/mol×K	465.18	Joback Method	
cpg	241.69	J/mol×K	495.41	Joback Method	
cpg	251.15	J/mol×K	525.64	Joback Method	
cpg	260.32	J/mol×K	555.87	Joback Method	
cpg	269.18	J/mol×K	586.09	Joback Method	
cpg	277.74	J/mol×K	616.32	Joback Method	
dvisc	0.0010710	Paxs	298.15	Densities and Viscosities of Binary Mixtures of Propylene Glycol Monomethyl Ether Acetate with Methacrylic Acid, Benzyl Methacrylate, and 2-Hydroxyethyl Methacrylate between 298.15 K and 318.15 K	

dvisc	0.0009040	Paxs	308.15	Densities and Viscosities of Binary Mixtures of Propylene Glycol Monomethyl Ether Acetate with Methacrylic Acid, Benzyl Methacrylate, and 2-Hydroxyethyl Methacrylate between 298.15 K and 318.15 K	
dvisc	0.0007770	Paxs	318.15	Densities and Viscosities of Binary Mixtures of Propylene Glycol Monomethyl Ether Acetate with Methacrylic Acid, Benzyl Methacrylate, and 2-Hydroxyethyl Methacrylate between 298.15 K and 318.15 K	
pvap	80.00	kPa	411.02	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	389.37	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	398.01	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	405.04	Isobaric vapor liquid equilibria for water + propylene glycol monomethyl ether (PGME), water + propyleneglycol monomethyl ether acetate (PGMEA), and PGME+PGMEA at reduced pressures	
pvap	26.70	kPa	377.95	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	416.25	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	418.18	Isobaric vapor
γναρ	00.10	ivi d	110.10	liquid equilibria for water + propylene glycol monomethyl ether (PGME), water + propyleneglycol monomethyl ether acetate (PGMEA), and PGME+PGMEA at reduced pressures
pvap	1.62	kPa	318.27	Solubilities of carbon dioxide in 2-methoxyethyl acetate, 1-methoxy-2-propyl acetate and 3-methoxybutyl acetate
pvap	4.15	kPa	335.61	Solubilities of carbon dioxide in 2-methoxyethyl acetate, 1-methoxy-2-propyl acetate and 3-methoxybutyl acetate
pvap	9.25	kPa	352.27	Solubilities of carbon dioxide in 2-methoxyethyl acetate, 1-methoxy-2-propyl acetate and 3-methoxybutyl acetate
pvap	13.71	kPa	361.27	Solubilities of carbon dioxide in 2-methoxyethyl acetate, 1-methoxy-2-propyl acetate and 3-methoxybutyl acetate
pvap	24.44	kPa	375.80	Solubilities of carbon dioxide in 2-methoxyethyl acetate, 1-methoxy-2-propyl acetate and 3-methoxybutyl acetate
pvap	40.01	kPa	389.25	Solubilities of carbon dioxide in 2-methoxyethyl acetate, 1-methoxy-2-propyl acetate and 3-methoxybutyl acetate

pvap	72.49	kPa	407.15	Solubilities of carbon dioxide in 2-methoxyethyl acetate, 1-methoxy-2-propyl acetate and 3-methoxybutyl acetate
pvap	101.33	kPa	418.65	Solubilities of carbon dioxide in 2-methoxyethyl acetate, 1-methoxy-2-propyl acetate and 3-methoxybutyl acetate
rhol	989.20	kg/m3	273.15	Below the room temperature measurements of CO2 solubilities in six physical absorbents
rhol	978.20	kg/m3	283.15	Below the room temperature measurements of CO2 solubilities in six physical absorbents
rhol	961.52	kg/m3	298.15	Isobaric Vapor Liquid Equilibria for Two Binary Systems {Propylene Glycol Methyl Ether Acetate + Methanol} and {Propylene Glycol Methyl Ether Acetate + N,N-Dimethylformamide} at p = 30.0, 50.0, and 70.0 kPa

Sources

NIST Webbook: http://webbook.nist.gov/cgi/cbook.cgi?ID=C108656&Units=SI

Joback Method: https://en.wikipedia.org/wiki/Joback_method

McGowan Method: http://link.springer.com/article/10.1007/BF02311772

Solubilities of Sulfuryl Fluoride in https://www.doi.org/10.1021/acs.jced.8b00224

https://www.doi.org/10.1021/acs.jced.6b01071

http://pubs.acs.org/doi/abs/10.1021/ci990307l https://www.doi.org/10.1016/j.fluid.2007.06.006

Solubilities of Sulfuryl Fluoride in 2-Butoxyethyl Acetate, 3-Methoxybutyl Reseities and Niscosities and Nisco monomethyl ether acetate (PGMEA), and PGME+PGMEA at reduced pressures:

Crippen Method:

https://www.chemeo.com/doc/models/crippen_log10ws

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Legend

cpg: Ideal gas heat capacity

dvisc: Dynamic viscosity

gf: Standard Gibbs free energy of formationhf: Enthalpy of formation at standard conditionshfus: Enthalpy of fusion at standard conditions

hvap: Enthalpy of vaporization at standard conditions

log10ws: Log10 of Water solubility in mol/llogp: Octanol/Water partition coefficientmcvol: McGowan's characteristic volume

pc: Critical Pressurepvap: Vapor pressurerhol: Liquid Density

rinpol: Non-polar retention indices

ripol: Polar retention indices

tb: Normal Boiling Point Temperature

tc: Critical Temperature

tf: Normal melting (fusion) point

vc: Critical Volume

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