

Acetic acid, methyl ester

Other names:	Acetate de methyle
	CH3COOCH3
	DEVOTON
	Ethyl ester of monoacetic acid
	METHYL ACETIC ESTER
	METHYL ETHANOATE
	Methyl acetate
	Methyl ester of acetic acid
	Methylacetaat
	Methylacetat
	Methyle (acetate de)
	Methylester kiseliny octove
	Metile (acetato di)
	NSC 405071
	Tereton
	UN 1231
	ethanoic acid, methyl ester
Inchi:	InChI=1S/C3H6O2/c1-3(4)5-2/h1-2H3
InchiKey:	KXKVLQRXCPHEJC-UHFFFAOYSA-N
Formula:	C3H6O2
SMILES:	COC(C)=O
Mol. weight [g/mol]:	74.08
CAS:	79-20-9

Physical Properties

Property code	Value	Unit	Source
af	0.3260		KDB
affp	821.60	kJ/mol	NIST Webbook
aigt	774.82	K	KDB
basg	790.70	kJ/mol	NIST Webbook
chl	-1592.20 ± 0.67	kJ/mol	NIST Webbook
chl	-1583.00	kJ/mol	NIST Webbook
dm	1.70	debye	KDB

dvisc	0.0003711	Paxs	Densities and Viscosities of Binary Liquid Mixtures of Trichloroethylene and Tetrachloroethylene with Some Polar and Nonpolar Solvents
dvisc	0.0004000	Paxs	Densities and Viscosities of 1-Butyl-3-methylimidazolium Tetrafluoroborate + Molecular Solvent Binary Mixtures
dvisc	0.0003800	Paxs	Densities and Viscosities of Ternary Mixtures of Cyclohexane + Cyclohexanone + Some Alkyl Acetates at 298.15 K
fill	3.10	% in Air	KDB
flu	16.00	% in Air	KDB
fpc	267.59	K	KDB
fpo	263.15	K	KDB
gf	-259.54	kJ/mol	Joback Method
gyrad	2.8620		KDB
hf	-410.00	kJ/mol	NIST Webbook
hf	-409.70	kJ/mol	KDB
hfl	-445.89	kJ/mol	NIST Webbook
hfus	6.31	kJ/mol	Joback Method
hvap	31.43	kJ/mol	Joback Method
ie	10.59	eV	NIST Webbook
ie	10.25 ± 0.02	eV	NIST Webbook
ie	11.00	eV	NIST Webbook
ie	10.50	eV	NIST Webbook
ie	10.33	eV	NIST Webbook
ie	10.25 ± 0.05	eV	NIST Webbook
ie	10.25	eV	NIST Webbook
ie	10.20	eV	NIST Webbook
ie	10.25	eV	NIST Webbook
ie	10.27 ± 0.02	eV	NIST Webbook
log10ws	0.46		Estimated Solubility Method
log10ws	0.52		Aqueous Solubility Prediction Method
logp	0.179		Crippen Method
mcvol	60.570	ml/mol	McGowan Method
nfpaf	%!d(float64=3)		KDB
nfpah	%!d(float64=1)		KDB
pc	4694.30 ± 40.00	kPa	NIST Webbook
pc	4750.00	kPa	KDB
pc	4750.00 ± 4.74	kPa	NIST Webbook
pc	5840.00 ± 607.95	kPa	NIST Webbook

pc	4694.00 ± 81.06	kPa	NIST Webbook
pc	4817.00 ± 101.32	kPa	NIST Webbook
rhoc	325.50 ± 3.70	kg/m3	NIST Webbook
rhoc	320.02 ± 5.93	kg/m3	NIST Webbook
rinpol	510.00		NIST Webbook
rinpol	530.00		NIST Webbook
rinpol	525.70		NIST Webbook
rinpol	522.40		NIST Webbook
rinpol	505.00		NIST Webbook
rinpol	505.00		NIST Webbook
rinpol	505.00		NIST Webbook
rinpol	509.00		NIST Webbook
rinpol	505.00		NIST Webbook
rinpol	529.00		NIST Webbook
rinpol	560.00		NIST Webbook
rinpol	525.90		NIST Webbook
rinpol	509.00		NIST Webbook
rinpol	509.00		NIST Webbook
rinpol	505.00		NIST Webbook
rinpol	506.00		NIST Webbook
rinpol	523.70		NIST Webbook
rinpol	531.00		NIST Webbook
rinpol	509.00		NIST Webbook
rinpol	522.00		NIST Webbook
rinpol	531.00		NIST Webbook
rinpol	517.20		NIST Webbook
rinpol	526.30		NIST Webbook
rinpol	506.00		NIST Webbook
rinpol	511.00		NIST Webbook
rinpol	511.00		NIST Webbook
rinpol	521.30		NIST Webbook
rinpol	516.70		NIST Webbook
rinpol	536.00		NIST Webbook
rinpol	515.00		NIST Webbook
rinpol	559.00		NIST Webbook
rinpol	512.00		NIST Webbook
rinpol	513.00		NIST Webbook
rinpol	513.00		NIST Webbook
rinpol	510.00		NIST Webbook
rinpol	511.00		NIST Webbook
rinpol	507.00		NIST Webbook
rinpol	512.00		NIST Webbook
rinpol	515.00		NIST Webbook
rinpol	524.00		NIST Webbook

rinpol	515.30	NIST Webbook
rinpol	525.00	NIST Webbook
rinpol	511.00	NIST Webbook
rinpol	515.00	NIST Webbook
rinpol	513.00	NIST Webbook
rinpol	519.00	NIST Webbook
rinpol	509.00	NIST Webbook
rinpol	531.00	NIST Webbook
rinpol	528.00	NIST Webbook
rinpol	509.00	NIST Webbook
rinpol	509.00	NIST Webbook
rinpol	525.00	NIST Webbook
rinpol	509.00	NIST Webbook
rinpol	559.00	NIST Webbook
rinpol	523.00	NIST Webbook
rinpol	513.00	NIST Webbook
rinpol	525.70	NIST Webbook
rinpol	530.00	NIST Webbook
rinpol	512.00	NIST Webbook
rinpol	510.00	NIST Webbook
rinpol	507.00	NIST Webbook
rinpol	512.00	NIST Webbook
rinpol	529.70	NIST Webbook
rinpol	524.00	NIST Webbook
rinpol	508.00	NIST Webbook
rinpol	508.00	NIST Webbook
rinpol	519.00	NIST Webbook
rinpol	513.00	NIST Webbook
rinpol	511.50	NIST Webbook
rinpol	513.80	NIST Webbook
rinpol	515.70	NIST Webbook
rinpol	521.30	NIST Webbook
rinpol	526.20	NIST Webbook
rinpol	521.00	NIST Webbook
rinpol	520.60	NIST Webbook
rinpol	522.17	NIST Webbook
rinpol	501.15	NIST Webbook
rinpol	513.00	NIST Webbook
rinpol	509.00	NIST Webbook
ripol	784.00	NIST Webbook
ripol	796.00	NIST Webbook
ripol	827.00	NIST Webbook
ripol	841.00	NIST Webbook
ripol	841.00	NIST Webbook

ripol	834.00	NIST Webbook
ripol	813.00	NIST Webbook
ripol	834.00	NIST Webbook
ripol	834.00	NIST Webbook
ripol	839.00	NIST Webbook
ripol	804.00	NIST Webbook
ripol	834.00	NIST Webbook
ripol	813.00	NIST Webbook
ripol	827.00	NIST Webbook
ripol	826.00	NIST Webbook
ripol	844.00	NIST Webbook
ripol	877.00	NIST Webbook
ripol	823.00	NIST Webbook
ripol	854.00	NIST Webbook
ripol	850.00	NIST Webbook
ripol	836.00	NIST Webbook
ripol	832.00	NIST Webbook
ripol	810.00	NIST Webbook
ripol	827.00	NIST Webbook
ripol	828.00	NIST Webbook
ripol	798.00	NIST Webbook
ripol	839.00	NIST Webbook
ripol	826.00	NIST Webbook
ripol	834.00	NIST Webbook
ripol	832.80	NIST Webbook
ripol	801.00	NIST Webbook
ripol	834.00	NIST Webbook
ripol	825.00	NIST Webbook
ripol	829.00	NIST Webbook
ripol	827.00	NIST Webbook
ripol	817.00	NIST Webbook
ripol	825.00	NIST Webbook
ripol	828.00	NIST Webbook
ripol	825.00	NIST Webbook
ripol	848.00	NIST Webbook
ripol	818.00	NIST Webbook
ripol	843.00	NIST Webbook
ripol	828.00	NIST Webbook
ripol	813.00	NIST Webbook
ripol	832.00	NIST Webbook
ripol	828.00	NIST Webbook
ripol	826.00	NIST Webbook
ripol	782.00	NIST Webbook
ripol	856.00	NIST Webbook

ripol	822.00		NIST Webbook
ripol	782.00		NIST Webbook
ripol	782.00		NIST Webbook
ripol	825.00		NIST Webbook
ripol	827.00		NIST Webbook
ripol	837.00		NIST Webbook
ripol	845.00		NIST Webbook
ripol	825.00		NIST Webbook
ripol	825.00		NIST Webbook
ripol	828.00		NIST Webbook
ripol	864.00		NIST Webbook
tb	329.85	K	Isobaric Vapor-Liquid Equilibria and Excess Properties for the Binary Systems of Methyl Esters + Heptane
tb	329.95	K	Experimental Measurements of Vapor Liquid Equilibrium Data for the Binary Systems of Methanol + 2-Butyl Acetate, 2-Butyl Alcohol + 2-Butyl Acetate, and Methyl Acetate + 2-Butyl Acetate at 101.33 kPa
tb	330.04	K	Volumetric property for carbon dioxide + methyl acetate system at 313.15K
tb	330.05	K	Multiphase equilibria for mixtures containing water, acetic acid, propionic acid, methyl acetate and methyl propionate
tb	330.95	K	Isobaric vapor-liquid equilibrium data for the binary system methyl acetate + isopropyl acetate and the quaternary system methyl acetate + methanol + isopropanol + isopropyl acetate at 101.3 kPa
tb	330.40	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	330.02	K	Experimental isobaric vapor-liquid equilibrium for the binary and ternary systems with methanol, methyl acetate and dimethyl sulfoxide at 101.3 kPa
tb	329.97	K	Vapor-Liquid Equilibrium and Liquid-Liquid Equilibrium of Methyl Acetate + Methanol + 1-Ethyl-3-methylimidazolium Acetate
tb	330.05	K	Isobaric vapor-liquid equilibrium for methanol + methyl acetate with ionic liquids [OMMIM][Tf2N] and [OMIM][Tf2N] as entrainers at 101.3 kPa
tb	330.02	K	KDB
tb	330.20	K	Isobaric Vapor-Liquid Equilibrium Measurements for Separation of Azeotrope (Methanol + Methyl Acetate)
tc	506.55	K	KDB
tf	175.00	K	KDB
tf	175.15 ± 0.30	K	NIST Webbook
tf	175.10 ± 0.20	K	NIST Webbook
tt	174.90 ± 0.01	K	NIST Webbook
vc	0.228	m3/kmol	KDB
zc	0.2571400		KDB
zra	0.26		KDB

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	92.58	J/mol×K	335.00	NIST Webbook
cpg	95.46	J/mol×K	350.00	NIST Webbook
cpg	100.39	J/mol×K	375.00	NIST Webbook
cpg	105.31	J/mol×K	400.00	NIST Webbook
cpg	109.98	J/mol×K	425.00	NIST Webbook
cpg	114.63	J/mol×K	450.00	NIST Webbook
cpl	123.70	J/mol×K	297.00	NIST Webbook
cpl	140.56	J/mol×K	298.15	NIST Webbook
cpl	141.34	J/mol×K	298.15	NIST Webbook
cpl	140.20	J/mol×K	288.58	NIST Webbook
cpl	140.60	J/mol×K	298.15	NIST Webbook

dvisc	0.0003480	Paxs	303.15	Dynamic Viscosities, Densities, and Speed of Sound and Derived Properties of the Binary Systems Acetic Acid with Water, Methanol, Ethanol, Ethyl Acetate and Methyl Acetate at T = (293.15, 298.15, and 303.15) K at Atmospheric Pressure
dvisc	0.0003860	Paxs	293.15	Dynamic Viscosities, Densities, and Speed of Sound and Derived Properties of the Binary Systems Acetic Acid with Water, Methanol, Ethanol, Ethyl Acetate and Methyl Acetate at T = (293.15, 298.15, and 303.15) K at Atmospheric Pressure
dvisc	0.0003510	Paxs	308.15	Densities, Excess Molar Volumes, Viscosities, Speeds of Sound, Excess Isentropic Compressibilities, and Relative Permittivities for Alkyl (Methyl, Ethyl, Butyl, and Isoamyl) Acetates + Glycols at Different Temperatures

dvisc	0.0003840	Paxs	298.15	Densities, Excess Molar Volumes, Viscosities, Speeds of Sound, Excess Isentropic Compressibilities, and Relative Permittivities for Alkyl (Methyl, Ethyl, Butyl, and Isoamyl) Acetates + Glycols at Different Temperatures
dvisc	0.0003480	Paxs	303.15	Density, dynamic viscosity, and derived properties of binary mixtures of methanol or ethanol with water, ethyl acetate, and methyl acetate at T = (293.15, 298.15, and 303.15) K
dvisc	0.0003670	Paxs	298.15	Dynamic Viscosities, Densities, and Speed of Sound and Derived Properties of the Binary Systems Acetic Acid with Water, Methanol, Ethanol, Ethyl Acetate and Methyl Acetate at T = (293.15, 298.15, and 303.15) K at Atmospheric Pressure
dvisc	0.0003860	Paxs	293.15	Density, dynamic viscosity, and derived properties of binary mixtures of methanol or ethanol with water, ethyl acetate, and methyl acetate at T = (293.15, 298.15, and 303.15) K

dvisc	0.0003670	Paxs	298.15	Density, dynamic viscosity, and derived properties of binary mixtures of methanol or ethanol with water, ethyl acetate, and methyl acetate at T = (293.15, 298.15, and 303.15) K
hfust	7.49	kJ/mol	174.90	NIST Webbook
hfust	7.49	kJ/mol	174.90	NIST Webbook
hfust	7.49	kJ/mol	174.90	NIST Webbook
hvapt	30.20	kJ/mol	330.00	NIST Webbook
hvapt	34.50	kJ/mol	295.50	NIST Webbook
hvapt	30.50 ± 0.10	kJ/mol	328.00	NIST Webbook
hvapt	30.30 ± 0.10	kJ/mol	331.00	NIST Webbook
hvapt	32.50	kJ/mol	295.00	NIST Webbook
hvapt	31.60 ± 0.10	kJ/mol	313.00	NIST Webbook
hvapt	32.20 ± 0.10	kJ/mol	304.00	NIST Webbook
hvapt	29.50 ± 0.10	kJ/mol	343.00	NIST Webbook
hvapt	33.40	kJ/mol	301.50	NIST Webbook
hvapt	34.10	kJ/mol	305.50	NIST Webbook
hvapt	30.32	kJ/mol	330.10	NIST Webbook
hvapt	31.80	kJ/mol	323.00	NIST Webbook
pvap	53.81	kPa	313.15	Total Vapor Pressure Measurements for 2-Ethoxyethanol with Methyl Acetate, Ethyl Acetate, Propyl Acetate, and Ethyl Propionate at 313.15 K and for 2-Ethoxyethanol with Methyl Formate at 308.15 K
pvap	40.40	kPa	306.00	Isobaric Vapor-Liquid Equilibria for Methyl Acetate + Methanol + 1-Ethyl-3-methylimidazolium Trifluoromethanesulfonate at 100 kPa

pvap	43.89	kPa	308.00	Isobaric Vapor-Liquid Equilibria for Methyl Acetate + Methanol + 1-Ethyl-3-methylimidazolium Trifluoromethanesulfonate at 100 kPa
pvap	47.62	kPa	310.00	Isobaric Vapor-Liquid Equilibria for Methyl Acetate + Methanol + 1-Ethyl-3-methylimidazolium Trifluoromethanesulfonate at 100 kPa
pvap	51.60	kPa	312.00	Isobaric Vapor-Liquid Equilibria for Methyl Acetate + Methanol + 1-Ethyl-3-methylimidazolium Trifluoromethanesulfonate at 100 kPa
pvap	55.85	kPa	314.00	Isobaric Vapor-Liquid Equilibria for Methyl Acetate + Methanol + 1-Ethyl-3-methylimidazolium Trifluoromethanesulfonate at 100 kPa
pvap	60.38	kPa	316.00	Isobaric Vapor-Liquid Equilibria for Methyl Acetate + Methanol + 1-Ethyl-3-methylimidazolium Trifluoromethanesulfonate at 100 kPa
pvap	65.21	kPa	318.00	Isobaric Vapor-Liquid Equilibria for Methyl Acetate + Methanol + 1-Ethyl-3-methylimidazolium Trifluoromethanesulfonate at 100 kPa
pvap	70.34	kPa	320.00	Isobaric Vapor-Liquid Equilibria for Methyl Acetate + Methanol + 1-Ethyl-3-methylimidazolium Trifluoromethanesulfonate at 100 kPa

pvap	75.79	kPa	322.00	Isobaric Vapor-Liquid Equilibria for Methyl Acetate + Methanol + 1-Ethyl-3-methylimidazolium Trifluoromethanesulfonate at 100 kPa
pvap	81.58	kPa	324.00	Isobaric Vapor-Liquid Equilibria for Methyl Acetate + Methanol + 1-Ethyl-3-methylimidazolium Trifluoromethanesulfonate at 100 kPa
pvap	87.72	kPa	326.00	Isobaric Vapor-Liquid Equilibria for Methyl Acetate + Methanol + 1-Ethyl-3-methylimidazolium Trifluoromethanesulfonate at 100 kPa
pvap	94.23	kPa	328.00	Isobaric Vapor-Liquid Equilibria for Methyl Acetate + Methanol + 1-Ethyl-3-methylimidazolium Trifluoromethanesulfonate at 100 kPa
pvap	101.12	kPa	330.00	Isobaric Vapor-Liquid Equilibria for Methyl Acetate + Methanol + 1-Ethyl-3-methylimidazolium Trifluoromethanesulfonate at 100 kPa
pvap	108.41	kPa	332.00	Isobaric Vapor-Liquid Equilibria for Methyl Acetate + Methanol + 1-Ethyl-3-methylimidazolium Trifluoromethanesulfonate at 100 kPa
pvap	116.11	kPa	334.00	Isobaric Vapor-Liquid Equilibria for Methyl Acetate + Methanol + 1-Ethyl-3-methylimidazolium Trifluoromethanesulfonate at 100 kPa

pvap	600.00	kPa	393.01	Experimental Determination of Vapor Liquid Equilibria. Binary Systems of Methyl Acetate, Ethyl Acetate, and Propyl Acetate with 1-Propanol at 0.6 MPa
pvap	132.83	kPa	338.00	Isobaric Vapor-Liquid Equilibria for Methyl Acetate + Methanol + 1-Ethyl-3-methylimidazolium Trifluoromethanesulfonate at 100 kPa
pvap	1500.00	kPa	436.08	Measurement and modeling of high pressure VLE for methyl acetate or ethyl acetate with 2-butanol. Isobaric data at 1.5 MPa
pvap	124.25	kPa	336.00	Isobaric Vapor-Liquid Equilibria for Methyl Acetate + Methanol + 1-Ethyl-3-methylimidazolium Trifluoromethanesulfonate at 100 kPa
pvap	101.30	kPa	329.97	Vapor-Liquid Equilibrium and Liquid-Liquid Equilibrium of Methyl Acetate + Methanol + 1-Ethyl-3-methylimidazolium Acetate
pvap	101.33	kPa	329.95	Experimental Measurements of Vapor Liquid Equilibrium Data for the Binary Systems of Methanol + 2-Butyl Acetate, 2-Butyl Alcohol + 2-Butyl Acetate, and Methyl Acetate + 2-Butyl Acetate at 101.33 kPa

pvap	79.21	kPa	323.15	Isothermal vapour liquid equilibrium with chemical reaction in the quaternary water + methanol + acetic acid + methyl acetate system, and in five binary subsystems
pvap	37.14	kPa	304.00	Isobaric Vapor-Liquid Equilibria for Methyl Acetate + Methanol + 1-Ethyl-3-methylimidazolium Trifluoromethanesulfonate at 100 kPa
pvap	101.30	kPa	330.05	Multiphase equilibria for mixtures containing water, acetic acid, propionic acid, methyl acetate and methyl propionate
rfi	1.35893		298.15	Densities, speeds of sound, and refractive indices of the ternary mixtures (toluene + methyl acetate + butyl acetate) and (toluene + methyl acetate + methyl heptanoate) at 298.15 K
rfi	1.35670		303.15	Densities, speeds of sound, isentropic compressibilities, refractive indexes, and viscosities of tetrahydrofuran with haloalkane or alkyl ethanoate at T = 303.15 K

rfi	1.35880	298.15	A Study on Alkane + Ester + Ester Systems. Physicochemical Behavior of Binaries and Ternaries of Octane or Iso-octane with Methyl Esters (Ethanoate, Butanoate, Pentanoate)
rfi	1.35872	298.15	Vapor-Liquid Equilibrium Data for Binary Mixtures of Dimethyl Carbonate with Methyl Acetate, Ethyl Acetate, n-Propyl Acetate, Isopropyl Acetate, n-Butyl Acetate, and Isoamyl Acetate at 93.13 kPa
rfi	1.36146	298.15	Isobaric Vapor-Liquid Equilibrium Data for Binary Systems of Anisole with Methyl Acetate, Ethyl Acetate, n-Propyl Acetate, and Isopropyl Acetate at 93.9 kPa
rfi	1.35870	298.15	Isobaric Vapor-Liquid Equilibria of Binary Mixtures of Diethyl Carbonate with Methyl Acetate, n-Propyl Acetate, or Amyl Acetate at 100.17 kPa
rfi	1.35875	298.15	Measurement of VLE Data by Using an Experimental Installation with Automatic Control: Modeling of Binary Systems of Methyl Acetate or Ethyl Acetate with n-Heptane or 2,2,4-Trimethylpentane at Both 0.1 and 1.5 MPa

rfi	1.34860	318.15	Excess Properties and Isobaric Vapor-Liquid Equilibria for Binary Mixtures of Methyl Esters + tert-Butanol
rfi	1.35850	298.15	Thermodynamic study of (alkyl esters + alpha,omega-alkyl dihalides) IV: Hex and Vex for 25 binary mixtures $\{xC(u-1)H(2u-1)CO_2CH_3 + (1-x)\alpha,\omega\text{-}BrCH_2(CH_2)(v-2)CH_2Br\}$, where $u = 1$ to 5, $\alpha = 1$ and $v = \omega = 2$ to 6
rfi	1.35893	298.15	Isobaric Vapor-Liquid Equilibria for the Binary Systems Benzene + Methyl Ethanoate, Benzene + Butyl Ethanoate, and Benzene + Methyl Heptanoate at 101.31kPa
rfi	1.36414	288.15	Density, Speed of Sound, and Refractive Index of 1-Ethyl-3-methylimidazolium Trifluoromethanesulfonate with Acetone, Methyl Acetate, and Ethyl Acetate at Temperatures from (278.15 to 328.15) K
rfi	1.35881	298.15	Density, Speed of Sound, and Refractive Index of 1-Ethyl-3-methylimidazolium Trifluoromethanesulfonate with Acetone, Methyl Acetate, and Ethyl Acetate at Temperatures from (278.15 to 328.15) K

rfi	1.35367	308.15	Density, Speed of Sound, and Refractive Index of 1-Ethyl-3-methylimidazolium Trifluoromethanesulfonate with Acetone, Methyl Acetate, and Ethyl Acetate at Temperatures from (278.15 to 328.15) K
rfi	1.34823	318.15	Density, Speed of Sound, and Refractive Index of 1-Ethyl-3-methylimidazolium Trifluoromethanesulfonate with Acetone, Methyl Acetate, and Ethyl Acetate at Temperatures from (278.15 to 328.15) K
rfi	1.35881	298.15	Properties of ionic liquid HMIMPF ₆ with carbonates, ketones and alkyl acetates
rfi	1.34900	318.15	Thermodynamic properties of (an ester + an alkane). XVI. Experimental HEm and V Em values and a new correlation method for (an alkyl ethanoate + an n-alkane) at 318.15 K
rfi	1.35865	298.15	Density, Refractive Index, Speed of Sound at 298.15 K, and Vapor-Liquid Equilibria at 101.3 kPa for Binary Mixtures of Ethyl Acetate + Ethyl Lactate and Methyl Acetate + Ethyl Lactate
rfi	1.35890	298.15	Vapor-liquid equilibrium measurements of dimethylsulfide, +ethanol, +dimethylether, +methylacetate with a static total pressure method

rfi	1.35906		298.15	Excess molar volumes and excess molar enthalpies for binary mixtures of 1,2-dichloropropane with methyl ethanoate, methyl propanoate, and methyl butanoate at T = 298.15K
rfi	1.35850		298.15	Molecular interactions in (2,4,6-trimethyl-1,3,5-trioxane + n-alkyl acetates) at T=(298.15, 303.15, and 308.15) K
rfi	1.36500		288.15	Density, refraction index and vapor-liquid equilibria of N-methyl-2-hydroxyethylammonium butyrate plus (methyl acetate or ethyl acetate or propyl acetate) at several temperatures
rhoI	927.30	kg/m3	298.15	Experimental Determination of Densities and Isobaric Vapor Liquid Equilibria of Methyl Acetate and Ethyl Acetate with Alcohols (C3 and C4) at 0.3 MPa
rhoI	907.90	kg/m3	313.15	Ternary Excess Molar Volumes of {Methyltrioctylammonium Bis[(trifluoromethyl)sulfonyl]imide + Methanol + Methyl Acetate or Ethyl Acetate} Systems at (298.15, 303.15, and 313.15) K
rhoI	920.50	kg/m3	303.15	Ternary Excess Molar Volumes of {Methyltrioctylammonium Bis[(trifluoromethyl)sulfonyl]imide + Methanol + Methyl Acetate or Ethyl Acetate} Systems at (298.15, 303.15, and 313.15) K

rhoI	927.10	kg/m3	298.15	Ternary Excess Molar Volumes of {Methyltrioctylammonium Bis[(trifluoromethyl)sulfonyl]imide + Methanol + Methyl Acetate or Ethyl Acetate} Systems at (298.15, 303.15, and 313.15) K
rhoI	927.70	kg/m3	298.15	Liquid Liquid Equilibrium for Ternary System Methanol + Methyl Acetate + 1,3-Dimethylimidazolium Dimethylphosphate at Several Temperatures and Atmospheric Pressure
rhoI	908.49	kg/m3	313.15	Volumetric and FT-IR Studies of the Binary Liquid Mixtures of Tributylamine and Alkyl Ester (C1-C5)
rhoI	915.16	kg/m3	308.15	Volumetric and FT-IR Studies of the Binary Liquid Mixtures of Tributylamine and Alkyl Ester (C1-C5)
rhoI	921.85	kg/m3	303.15	Volumetric and FT-IR Studies of the Binary Liquid Mixtures of Tributylamine and Alkyl Ester (C1-C5)
rhoI	928.46	kg/m3	298.15	Volumetric and FT-IR Studies of the Binary Liquid Mixtures of Tributylamine and Alkyl Ester (C1-C5)
rhoI	935.01	kg/m3	293.15	Volumetric and FT-IR Studies of the Binary Liquid Mixtures of Tributylamine and Alkyl Ester (C1-C5)

rhoI	927.10	kg/m3	298.15	Vapor-liquid equilibria of binary and ternary mixtures containing ethyl lactate and effect of ethyl lactate as entrainer
rhoI	927.30	kg/m3	298.15	Isobaric vapor-liquid equilibrium for methyl acetate + methanol system containing different ionic liquids at 101.3 kPa
rhoI	934.00	kg/m3	293.00	KDB
rhoI	926.90	kg/m3	298.15	Densities and interfacial tensions for fatty acid methyl esters (from methyl formate to methyl heptanoate) + water demixed mixtures at atmospheric pressure conditions
rhoI	927.50	kg/m3	298.15	Isobaric vapor-liquid equilibrium of the binary system sec-butyl acetate + para-xylene and the quaternary system methyl acetate + para-xylene + sec-butyl acetate + acetic acid at 101.3 kPa
speedsl	1200.38	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	1178.95	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	1155.93	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	1132.98	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	1110.02	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
srf	0.02	N/m	298.15	Surface Tension Data of Aqueous Binary Mixtures of Methyl, Ethyl, Propyl, and Butyl Acetates at 298.15 K

Correlations

Information	Value
Property code	pvap
Equation	$\ln(P_{vp}) = A + B/(T + C)$
Coeff. A	1.47592e+01
Coeff. B	-2.94089e+03
Coeff. C	-3.99950e+01
Temperature range (K), min.	243.21
Temperature range (K), max.	506.55

Information	Value
Property code	pvap
Equation	$\ln(P_{vp}) = A + B/T + C*\ln(T) + D*T^2$
Coeff. A	7.85873e+01
Coeff. B	-6.36277e+03
Coeff. C	-9.58632e+00
Coeff. D	8.25370e-06
Temperature range (K), min.	175.15
Temperature range (K), max.	506.80

Sources

Solubility of Agomelatine Crystal Form I and Form II in Pure Solvents and Infinite dilution activity coefficients of volatile organic compounds in two Determination of Henry's Law Constants Using Internal Standards with the Concentration at Infinite Dilution of Various Solutes in: Tetra Propylammonium Bromide + 1,6-Hexanediol Deep Eutectic Solvent: Activity coefficients at infinite dilution of organic solutes in the ionic liquid Solubility Measurements and Thermodynamic Modeling of Binary Methoxyphenyl-2-methylpropanamide limiting activity coefficients data using Simple Method from Gas-liquid and modelling of thermodynamic isobaric vapor-liquid equilibrium for methyl acetate + methanol system Isothermal vapor-liquid equilibria with chemical reaction in the Measurments and modeling of high pressure VLE for methyl acetate in binary mixtures with carbon dioxide containing water, acetic acid, propionic acid, and Ethanol and Modeling Thermodynamic Dissolution Properties of Benzene thermodynamic in Neat solvents in pure solvents and binary solvent mixtures:

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Solubility Measurement and Phase Equilibrium Modeling of 2-Ethyl-3-methylimidazoles (an ester solvent). XVI. Experimental HEM for CO_2 -En Varres and a New Correlation Method to Predict a Methanolate + an 1-Ethyl-3-methylimidazolium Trifluoromethanesulfonate at 100 kPa:

<https://www.doi.org/10.1021/acs.jced.9b00350>
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Solubility Measurement and Phase Equilibrium Modeling of 2-Ethyl-3-methylimidazoles (an ester solvent). XVI. Experimental HEM for CO_2 -En Varres and a New Correlation Method to Predict a Methanolate + an 1-Ethyl-3-methylimidazolium Trifluoromethanesulfonate at 100 kPa:

dvisc:	Dynamic viscosity
fl:	Lower Flammability Limit
flu:	Upper Flammability Limit
fpc:	Flash Point (Closed Cup Method)
fpo:	Flash Point (Open Cup Method)
gf:	Standard Gibbs free energy of formation
gyrad:	Radius of Gyration
hf:	Enthalpy of formation at standard conditions
hfl:	Liquid phase enthalpy of formation at standard conditions
hfus:	Enthalpy of fusion at standard conditions
hfust:	Enthalpy of fusion at a given temperature
hvap:	Enthalpy of vaporization at standard conditions
hvapt:	Enthalpy of vaporization at a given temperature
ie:	Ionization energy
log10ws:	Log10 of Water solubility in mol/l
logp:	Octanol/Water partition coefficient
mcvol:	McGowan's characteristic volume
nfpa:	NFPA Fire Rating
nfpah:	NFPA Health Rating
pc:	Critical Pressure
pvap:	Vapor pressure
rfi:	Refractive Index
rhoc:	Critical density
rhof:	Liquid Density
rinpol:	Non-polar retention indices
ripol:	Polar retention indices
speedsl:	Speed of sound in fluid
srf:	Surface Tension
tb:	Normal Boiling Point Temperature
tc:	Critical Temperature
tf:	Normal melting (fusion) point
tt:	Triple Point Temperature
vc:	Critical Volume
zc:	Critical Compressibility
zra:	Rackett Parameter

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