

Propane, 2-methoxy-2-methyl-

Other names:	1,1-Dimethylethyl methyl ether 1,1-dimethyl-1-methoxyethane 2-METHOXY-2-METHYLPROPANE 2-Methyl-2-methoxypropane 3,3-dimethyl-2-oxabutane Driveron Ether, tert-butyl methyl METHYL-1,1-DIMETHYLETHYL ETHER MTBE Methyl 1,1-dimethylethyl ether Methyl t-butyl ether Methyl tert-butyl ether TERT-BUTYL METHYL ETHER UN 2398 methyl tert-butyl ether (MTBE) t-Butyl methyl ether tert-C4H9OCH3
Inchi:	InChI=1S/C5H12O/c1-5(2,3)6-4/h1-4H3
InchiKey:	BZLVMXJERCGZMT-UHFFFAOYSA-N
Formula:	C5H12O
SMILES:	COC(C)(C)C
Mol. weight [g/mol]:	88.15
CAS:	1634-04-4

Physical Properties

Property code	Value	Unit	Source
af	0.2690		KDB
affp	841.60	kJ/mol	NIST Webbook
basg	812.40	kJ/mol	NIST Webbook
chl	-3368.97	kJ/mol	NIST Webbook
chl	-3359.70 ± 6.50	kJ/mol	NIST Webbook
dm	1.20	debye	KDB

dvisc	0.0003610	Paxs	Densities and Viscosities for the Ternary Systems of Methyl tert-Butyl Ether + Methanol + Benzene and Methyl tert-Butyl Ether + Methanol + Toluene and Their Sub-binary Systems at 298.15 K
gf	-125.50	kJ/mol	KDB
hf	-282.20 ± 1.90	kJ/mol	NIST Webbook
hf	-285.00	kJ/mol	NIST Webbook
hf	-293.10	kJ/mol	KDB
hf	-283.20 ± 1.30	kJ/mol	NIST Webbook
hfl	-313.60 ± 1.30	kJ/mol	NIST Webbook
hfl	-322.90 ± 5.00	kJ/mol	NIST Webbook
hfl	-315.40	kJ/mol	NIST Webbook
hfus	2.48	kJ/mol	Joback Method
hvap	27.84	kJ/mol	Joback Method
ie	9.41	eV	NIST Webbook
ie	9.24	eV	NIST Webbook
ie	9.48	eV	NIST Webbook
log10ws	-0.24		Estimated Solubility Method
log10ws	-0.24		Aqueous Solubility Prediction Method
logp	1.431		Crippen Method
mcvol	87.180	ml/mol	McGowan Method
pc	3397.00 ± 8.00	kPa	NIST Webbook
pc	3430.00	kPa	KDB
pc	3430.00 ± 10.00	kPa	NIST Webbook
rinpol	570.12		NIST Webbook
rinpol	562.00		NIST Webbook
rinpol	544.00		NIST Webbook
rinpol	549.00		NIST Webbook
rinpol	562.70		NIST Webbook
rinpol	568.00		NIST Webbook
rinpol	563.70		NIST Webbook
rinpol	566.00		NIST Webbook
rinpol	567.00		NIST Webbook
rinpol	554.50		NIST Webbook
rinpol	558.00		NIST Webbook
rinpol	563.00		NIST Webbook
rinpol	570.00		NIST Webbook
rinpol	560.00		NIST Webbook
rinpol	556.00		NIST Webbook
rinpol	556.00		NIST Webbook
rinpol	556.00		NIST Webbook

rinpol	560.00		NIST Webbook
rinpol	568.00		NIST Webbook
rinpol	563.00		NIST Webbook
rinpol	556.00		NIST Webbook
rinpol	566.00		NIST Webbook
ripol	666.00		NIST Webbook
ripol	688.00		NIST Webbook
sg	357.80	J/molxK	NIST Webbook
sl	265.30	J/molxK	NIST Webbook
tb	328.25	K	Vapor-Liquid Equilibria for the Binary Systems of Dimethoxymethane with Some Fuel Oxygenates
tb	328.30	K	KDB
tc	497.00	K	Measurement of critical temperatures and critical pressures for binary mixtures of methyl tert-butyl ether (MTBE) + alcohol and MTBE + alkane
tc	497.10 ± 0.20	K	NIST Webbook
tc	497.10	K	KDB
tc	496.40 ± 0.30	K	NIST Webbook
tc	497.10	K	NIST Webbook
tf	164.25	K	Aqueous Solubility Prediction Method
tf	164.50 ± 0.20	K	NIST Webbook
tf	164.50	K	KDB
tt	164.56 ± 0.07	K	NIST Webbook
vc	0.323	m3/kmol	KDB
zc	0.2676350		KDB

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	167.93	J/molxK	391.53	Joback Method
cpg	158.08	J/molxK	362.26	Joback Method
cpg	203.44	J/molxK	508.60	Joback Method
cpg	195.13	J/molxK	479.33	Joback Method
cpg	186.44	J/molxK	450.06	Joback Method
cpg	177.38	J/molxK	420.79	Joback Method
cpg	147.83	J/molxK	332.99	Joback Method
cpl	187.80	J/molxK	298.15	NIST Webbook
cpl	187.50	J/molxK	298.15	NIST Webbook

cpl	188.00	J/molxK	298.00	NIST Webbook
dvisc	0.0003190	Paxs	298.15	Density, Viscosity, Vapor-Liquid Equilibrium, and Excess Molar Enthalpy of [Chloroform + Methyl tert-Butyl Ether]
dvisc	0.0003040	Paxs	303.15	Density, Viscosity, Vapor-Liquid Equilibrium, and Excess Molar Enthalpy of [Chloroform + Methyl tert-Butyl Ether]
dvisc	0.0002780	Paxs	313.15	Density, Viscosity, Vapor-Liquid Equilibrium, and Excess Molar Enthalpy of [Chloroform + Methyl tert-Butyl Ether]
dvisc	0.0003330	Paxs	293.15	Density, Viscosity, Vapor-Liquid Equilibrium, and Excess Molar Enthalpy of [Chloroform + Methyl tert-Butyl Ether]
dvisc	0.0004170	Paxs	278.15	Densities and Viscosities of MTBE + Heptane or Octane at p) 0.1 MPa from (273.15 to 363.15) K
dvisc	0.0003920	Paxs	283.15	Densities and Viscosities of MTBE + Heptane or Octane at p) 0.1 MPa from (273.15 to 363.15) K
dvisc	0.0003700	Paxs	288.15	Densities and Viscosities of MTBE + Heptane or Octane at p) 0.1 MPa from (273.15 to 363.15) K

dvisc	0.0003600	Paxs	283.15	Density, Viscosity, Vapor-Liquid Equilibrium, and Excess Molar Enthalpy of [Chloroform + Methyl tert-Butyl Ether]
dvisc	0.0003900	Paxs	273.15	Density, Viscosity, Vapor-Liquid Equilibrium, and Excess Molar Enthalpy of [Chloroform + Methyl tert-Butyl Ether]
dvisc	0.0002846	Paxs	313.15	Experimental and Predicted Viscosities of Binary Mixtures Containing Chlorinated and Oxygenated Compounds
dvisc	0.0002994	Paxs	308.15	Experimental and Predicted Viscosities of Binary Mixtures Containing Chlorinated and Oxygenated Compounds
dvisc	0.0003152	Paxs	303.15	Experimental and Predicted Viscosities of Binary Mixtures Containing Chlorinated and Oxygenated Compounds
dvisc	0.0003327	Paxs	298.15	Experimental and Predicted Viscosities of Binary Mixtures Containing Chlorinated and Oxygenated Compounds
dvisc	0.0003482	Paxs	293.15	Experimental and Predicted Viscosities of Binary Mixtures Containing Chlorinated and Oxygenated Compounds

dvisc	0.0003640	Paxs	288.15	Experimental and Predicted Viscosities of Binary Mixtures Containing Chlorinated and Oxygenated Compounds
dvisc	0.0004430	Paxs	273.15	Densities and Viscosities of MTBE + Heptane or Octane at p) 0.1 MPa from (273.15 to 363.15) K
dvisc	0.0003897	Paxs	283.15	Experimental and Predicted Viscosities of Binary Mixtures Containing Chlorinated and Oxygenated Compounds
hfust	7.60	kJ/mol	164.56	NIST Webbook
hfust	7.60	kJ/mol	164.60	NIST Webbook
hfust	7.60	kJ/mol	164.60	NIST Webbook
hvapt	30.20	kJ/mol	319.00	NIST Webbook
hvapt	30.40	kJ/mol	306.50	NIST Webbook
hvapt	29.90	kJ/mol	314.00	NIST Webbook
hvapt	27.94	kJ/mol	328.30	NIST Webbook
hvapt	27.90	kJ/mol	328.00	NIST Webbook
hvapt	31.20	kJ/mol	355.50	NIST Webbook
hvapt	30.00	kJ/mol	310.00	NIST Webbook
hvapt	29.60	kJ/mol	340.00	NIST Webbook
kvisc	0.0000004	m2/s	313.15	Kinematic Viscosities for Ether + Alkane Mixtures: Experimental Results and UNIFAC-VISCO Parameters
kvisc	0.0000005	m2/s	298.15	Kinematic Viscosities for Ether + Alkane Mixtures: Experimental Results and UNIFAC-VISCO Parameters
kvisc	0.0000005	m2/s	283.15	Kinematic Viscosities for Ether + Alkane Mixtures: Experimental Results and UNIFAC-VISCO Parameters

pvap	18.55	kPa	284.82	Isothermal vapour liquid equilibria of binary systems of 1,2-dichloroethane with ethers
pvap	43.26	kPa	304.79	Isothermal vapour liquid equilibria of binary systems of 1,2-dichloroethane with ethers
pvap	62.95	kPa	314.75	Isothermal vapour liquid equilibria of binary systems of 1,2-dichloroethane with ethers
pvap	62.97	kPa	314.76	Isothermal vapour liquid equilibria of binary systems of 1,2-dichloroethane with ethers
pvap	62.97	kPa	314.76	Isothermal vapour liquid equilibria of binary systems of 1,2-dichloroethane with ethers
pvap	89.66	kPa	324.90	Isothermal vapour liquid equilibria of binary systems of 1,2-dichloroethane with ethers
pvap	89.69	kPa	324.90	Isothermal vapour liquid equilibria of binary systems of 1,2-dichloroethane with ethers
pvap	124.02	kPa	334.85	Isothermal vapour liquid equilibria of binary systems of 1,2-dichloroethane with ethers
pvap	11.59	kPa	274.91	Isothermal vapour liquid equilibria of binary systems of 1,2-dichloroethane with ethers
pvap	167.57	kPa	344.85	Isothermal vapour liquid equilibria of binary systems of 1,2-dichloroethane with ethers

pvap	221.79	kPa	354.82	Isothermal vapour liquid equilibria of binary systems of 1,2-dichloroethane with ethers
pvap	221.39	kPa	354.82	Isothermal vapour liquid equilibria of binary systems of 1,2-dichloroethane with ethers
pvap	17.79	kPa	283.60	A milliliter-scale setup for the efficient characterization of isothermal vapor-liquid equilibria using Raman spectroscopy
pvap	22.07	kPa	288.60	A milliliter-scale setup for the efficient characterization of isothermal vapor-liquid equilibria using Raman spectroscopy
pvap	27.43	kPa	293.50	A milliliter-scale setup for the efficient characterization of isothermal vapor-liquid equilibria using Raman spectroscopy
pvap	33.72	kPa	298.40	A milliliter-scale setup for the efficient characterization of isothermal vapor-liquid equilibria using Raman spectroscopy
pvap	41.10	kPa	303.30	A milliliter-scale setup for the efficient characterization of isothermal vapor-liquid equilibria using Raman spectroscopy

pvap	49.80	kPa	308.20	A milliliter-scale setup for the efficient characterization of isothermal vapor-liquid equilibria using Raman spectroscopy
pvap	59.90	kPa	313.10	A milliliter-scale setup for the efficient characterization of isothermal vapor-liquid equilibria using Raman spectroscopy
pvap	43.24	kPa	304.79	Isothermal vapour liquid equilibria of binary systems of 1,2-dichloroethane with ethers
pvap	85.01	kPa	323.00	A milliliter-scale setup for the efficient characterization of isothermal vapor-liquid equilibria using Raman spectroscopy
pvap	100.34	kPa	327.90	A milliliter-scale setup for the efficient characterization of isothermal vapor-liquid equilibria using Raman spectroscopy
pvap	117.70	kPa	332.90	A milliliter-scale setup for the efficient characterization of isothermal vapor-liquid equilibria using Raman spectroscopy
pvap	137.39	kPa	337.80	A milliliter-scale setup for the efficient characterization of isothermal vapor-liquid equilibria using Raman spectroscopy

pvap	6.24	kPa	263.15	Isothermal (vapor + liquid) equilibria and excess enthalpy data of {1-hexene + methyl butyl ether (MBE)} and {1-hexene + methyl tert-butyl ether (MTBE)} binary systems at several temperatures
pvap	6.40	kPa	263.53	Isothermal (vapor + liquid) equilibria and excess enthalpy data of {1-hexene + methyl butyl ether (MBE)} and {1-hexene + methyl tert-butyl ether (MTBE)} binary systems at several temperatures
pvap	10.67	kPa	273.15	Isothermal (vapor + liquid) equilibria and excess enthalpy data of {1-hexene + methyl butyl ether (MBE)} and {1-hexene + methyl tert-butyl ether (MTBE)} binary systems at several temperatures
pvap	10.80	kPa	273.34	Isothermal (vapor + liquid) equilibria and excess enthalpy data of {1-hexene + methyl butyl ether (MBE)} and {1-hexene + methyl tert-butyl ether (MTBE)} binary systems at several temperatures
pvap	17.41	kPa	283.15	Isothermal (vapor + liquid) equilibria and excess enthalpy data of {1-hexene + methyl butyl ether (MBE)} and {1-hexene + methyl tert-butyl ether (MTBE)} binary systems at several temperatures

pvap	17.60	kPa	283.27	Isothermal (vapor + liquid) equilibria and excess enthalpy data of {1-hexene + methyl butyl ether (MBE)} and {1-hexene + methyl tert-butyl ether (MTBE)} binary systems at several temperatures
pvap	11.59	kPa	274.90	Isothermal vapour liquid equilibria of binary systems of 1,2-dichloroethane with ethers
pvap	27.40	kPa	293.25	Isothermal (vapor + liquid) equilibria and excess enthalpy data of {1-hexene + methyl butyl ether (MBE)} and {1-hexene + methyl tert-butyl ether (MTBE)} binary systems at several temperatures
pvap	41.16	kPa	303.15	Isothermal (vapor + liquid) equilibria and excess enthalpy data of {1-hexene + methyl butyl ether (MBE)} and {1-hexene + methyl tert-butyl ether (MTBE)} binary systems at several temperatures
pvap	41.20	kPa	303.22	Isothermal (vapor + liquid) equilibria and excess enthalpy data of {1-hexene + methyl butyl ether (MBE)} and {1-hexene + methyl tert-butyl ether (MTBE)} binary systems at several temperatures

pvap	60.22	kPa	313.15	Isothermal (vapor + liquid) equilibria and excess enthalpy data of {1-hexene + methyl butyl ether (MBE)} and {1-hexene + methyl tert-butyl ether (MTBE)} binary systems at several temperatures
pvap	60.30	kPa	313.24	Isothermal (vapor + liquid) equilibria and excess enthalpy data of {1-hexene + methyl butyl ether (MBE)} and {1-hexene + methyl tert-butyl ether (MTBE)} binary systems at several temperatures
pvap	85.65	kPa	323.15	Isothermal (vapor + liquid) equilibria and excess enthalpy data of {1-hexene + methyl butyl ether (MBE)} and {1-hexene + methyl tert-butyl ether (MTBE)} binary systems at several temperatures
pvap	85.80	kPa	323.21	Isothermal (vapor + liquid) equilibria and excess enthalpy data of {1-hexene + methyl butyl ether (MBE)} and {1-hexene + methyl tert-butyl ether (MTBE)} binary systems at several temperatures
pvap	119.20	kPa	333.19	Isothermal (vapor + liquid) equilibria and excess enthalpy data of {1-hexene + methyl butyl ether (MBE)} and {1-hexene + methyl tert-butyl ether (MTBE)} binary systems at several temperatures

pvap	118.78	kPa	333.15	Isothermal (vapor + liquid) equilibria and excess enthalpy data of {1-hexene + methyl butyl ether (MBE)} and {1-hexene + methyl tert-butyl ether (MTBE)} binary systems at several temperatures
pvap	62.40	kPa	313.20	Isothermal vapor-liquid equilibrium of binary and ternary systems of anisole, hexane, and toluene and ternary system of methyl tert-butyl ether, hexane, and toluene
pvap	160.66	kPa	343.15	Thermodynamics of isomeric hexynes +MTBE binary mixtures
pvap	118.27	kPa	333.15	Thermodynamics of isomeric hexynes +MTBE binary mixtures
pvap	85.15	kPa	323.15	Thermodynamics of isomeric hexynes +MTBE binary mixtures
pvap	59.81	kPa	313.15	Thermodynamics of isomeric hexynes +MTBE binary mixtures
pvap	40.86	kPa	303.15	Thermodynamics of isomeric hexynes +MTBE binary mixtures
pvap	33.39	kPa	298.15	Thermodynamics of isomeric hexynes +MTBE binary mixtures
pvap	27.06	kPa	293.15	Thermodynamics of isomeric hexynes +MTBE binary mixtures
pvap	17.31	kPa	283.15	Thermodynamics of isomeric hexynes +MTBE binary mixtures

pvap	28.78	kPa	294.80	Isothermal vapour liquid equilibria of binary systems of 1,2-dichloroethane with ethers
pvap	10.64	kPa	273.15	Thermodynamics of isomeric hexynes +MTBE binary mixtures
pvap	71.61	kPa	318.10	A milliliter-scale setup for the efficient characterization of isothermal vapor-liquid equilibria using Raman spectroscopy
pvap	6.25	kPa	263.15	Thermodynamics of isomeric hexynes +MTBE binary mixtures
pvap	28.78	kPa	294.81	Isothermal vapour liquid equilibria of binary systems of 1,2-dichloroethane with ethers
pvap	28.78	kPa	294.80	Isothermal vapour liquid equilibria of binary systems of 1,2-dichloroethane with ethers
pvap	120.40	kPa	333.15	Thermodynamics of binary mixtures containing N-methyl-2-pyrrolidinone VLE measurements for systems with ethers Comparison with the Mod. UNIFAC (Do) and DISQUAC models Predictions for VLE, GE m, HEm and SLE?
pvap	167.14	kPa	344.84	Isothermal vapour liquid equilibria of binary systems of 1,2-dichloroethane with ethers

pvap	27.25	kPa	293.15	Isothermal (vapor + liquid) equilibria and excess enthalpy data of {1-hexene + methyl butyl ether (MBE)} and {1-hexene + methyl tert-butyl ether (MTBE)} binary systems at several temperatures
rfi	1.36628		298.15	Isobaric Vapor-Liquid Equilibria at 101.32 kPa and Densities, Speeds of Sound, and Refractive Indices at 298.15 K for MTBE or DIPE or TAME + 1-Propanol Binary Systems
rfi	1.36632		298.20	Vapor-Liquid Equilibrium Measurements of Ether Alcohol Blends for Investigation on Reformulated Gas
rfi	1.36766		298.15	Phase equilibria and interfacial tensions in the systems methyl tert-butyl ether + acetone + cyclohexane, methyl tert-butyl ether + acetone and methyl tert-butyl ether + cyclohexane
rfi	1.36764		298.15	Atmospheric densities and interfacial tensions for 1-alkanol (1-butanol to 1-octanol) + water and ether (MTBE, ETBE, DIPE, TAME and THP) + water demixed mixtures.

rfi	1.36900	293.15	(Vapor + liquid) equilibrium of the binary mixtures formed by acetonitrile with selected compounds at 95.5 kPa
rfi	1.36648	298.15	Volumetric behaviour of binary liquid systems composed of toluene, isooctane, and methyl tert-butyl ether at temperatures from (298.15 to 328.15) K
rfi	1.36648	298.15	Volumetric behavior of the ternary system (methyl tert-butyl ether + methylbenzene + butan-1-ol) and its binary sub-system (methyl tert-butyl ether + butan-1-ol) within the temperature range (298.15 to 328.15) K
rfi	1.36610	298.15	sothermal and Isobaric Vapor-Liquid Equilibrium and Excess Molar Enthalpy of the Binary Mixtures of 2-Methoxy-2-methylpropane + 2-Methyl-2-butanol or + 2-Butanol
rfi	1.36600	298.15	Solubility of α -Carotene in Binary Solvents Formed by Some Hydrocarbons with tert-Butyl Methyl Ether and with tert-Amyl Methyl Ether
rfi	1.36980	293.15	Vapor-Liquid Equilibrium Measurements of MTBE and TAME with Toluene

rfi	1.36594		298.15	Quaternary, Ternary, and Binary LLE Measurements for 2-Methoxy-2-methylpropane + Furfural + Acetic Acid + Water at Temperatures between 298 and 307 K
rfi	1.36766		298.15	Vapor-Liquid Equilibria and Interfacial Tensions of the System Ethanol + 2-Methoxy-2-methylpropane
rfi	1.36890		293.15	A novel static analytical apparatus for phase equilibrium measurements
rhoI	735.48	kg/m3	298.15	Excess Molar Volumes and Surface Tensions of Xylene with Isopropyl Ether or Methyl tert-Butyl Ether at 298.15 K
rhoI	735.35	kg/m3	298.15	Mixing Properties for the Ternary Mixture Methyl tert-Butyl Ether + 1-Butanol + Decane at 298.15 K
rhoI	724.60	kg/m3	308.15	Physicochemical Properties of LiFSI Solutions II: LiFSI with Water, MTBE, and Anisole
rhoI	713.96	kg/m3	318.15	Densities and Viscosities of MTBE + Nonane or Decane at p = 0.1 MPa from (273.15 to 363.15) K
rhoI	745.90	kg/m3	288.15	Physicochemical Properties of LiFSI Solutions II: LiFSI with Water, MTBE, and Anisole

rhoI	719.42	kg/m3	313.15	Densities and Viscosities of MTBE + Nonane or Decane at p = 0.1 MPa from (273.15 to 363.15) K
rhoI	761.30	kg/m3	273.15	Physicochemical Properties of LiFSI Solutions II: LiFSI with Water, MTBE, and Anisole
rhoI	724.82	kg/m3	308.15	Densities and Viscosities of MTBE + Nonane or Decane at p = 0.1 MPa from (273.15 to 363.15) K
rhoI	730.10	kg/m3	303.15	Densities and Viscosities of MTBE + Nonane or Decane at p = 0.1 MPa from (273.15 to 363.15) K
rhoI	735.40	kg/m3	298.15	Densities and Viscosities of MTBE + Nonane or Decane at p = 0.1 MPa from (273.15 to 363.15) K
rhoI	740.65	kg/m3	293.15	Densities and Viscosities of MTBE + Nonane or Decane at p = 0.1 MPa from (273.15 to 363.15) K
rhoI	734.10	kg/m3	298.15	Solubility and solution thermodynamics of sorbic acid in eight pure organic solvents
rhoI	735.99	kg/m3	298.15	Excess molar enthalpies of the ternary mixtures (1-hexene + tetrahydrofuran or 2-methyltetrahydrofuran + methyl tert-butyl ether) at the temperature 298.15K.

rhoI	735.00	kg/m3	298.15	Physicochemical Properties of LiFSI Solutions II: LiFSI with Water, MTBE, and Anisole
rhoI	745.85	kg/m3	288.15	Densities and Viscosities of MTBE + Nonane or Decane at p = 0.1 MPa from (273.15 to 363.15) K
rhoI	751.02	kg/m3	283.15	Densities and Viscosities of MTBE + Nonane or Decane at p = 0.1 MPa from (273.15 to 363.15) K
rhoI	756.14	kg/m3	278.15	Densities and Viscosities of MTBE + Nonane or Decane at p = 0.1 MPa from (273.15 to 363.15) K
rhoI	761.34	kg/m3	273.15	Densities and Viscosities of MTBE + Nonane or Decane at p = 0.1 MPa from (273.15 to 363.15) K
rhoI	739.80	kg/m3	293.15	Measurements of Liquid Liquid Equilibria for the Quaternary System 2-Methoxy-2-methylpropane + Phenol + Hydroquinone + Water at 313.15 K
rhoI	735.99	kg/m3	298.15	Excess molar enthalpies of the ternary mixtures: (tetrahydrofuran or 2-methyltetrahydrofuran + methyl tert-butyl ether + n-octane) at the temperature 298.15 K

rhoI	735.21	kg/m3	298.15	Excess Volumes of Ternary Mixtures 2,2,4-Trimethylpentane + Diisopropyl Ether or Methyl tert-Butyl Ether + Methanol, Ethanol, or 1-Propanol at 298.15 K
rhoI	735.99	kg/m3	298.15	Excess molar enthalpies of the ternary mixtures: {tetrahydrofuran or 2-methyltetrahydrofuran + methyl tert-butyl ether + n-dodecane} at the temperature 298.15 K
rhoI	724.85	kg/m3	308.15	Densities and derived thermodynamic properties of the binary systems of 1,1-dimethylethyl methyl ether with allyl methacrylate, butyl methacrylate, methacrylic acid, and vinyl acetate at T = (298.15 and 308.15) K
rhoI	735.36	kg/m3	298.15	Densities and derived thermodynamic properties of the binary systems of 1,1-dimethylethyl methyl ether with allyl methacrylate, butyl methacrylate, methacrylic acid, and vinyl acetate at T = (298.15 and 308.15) K

rhoI	740.60	kg/m3	298.15	Vapor-Liquid Equilibria for the Ternary Systems of Methyl tert-Butyl Ether + Methanol + Methylcyclohexane and Methyl tert-Butyl Ether + Methanol + n-Heptane and Constituent Binary Systems at 313.15 K
rhoI	718.08	kg/m3	313.20	Liquid-liquid equilibrium data and thermophysical properties for ternary systems composed of water, acetic acid and different solvents
rhoI	739.45	kg/m3	293.20	Liquid-liquid equilibrium data and thermophysical properties for ternary systems composed of water, acetic acid and different solvents
rhoI	737.80	kg/m3	298.20	Phase equilibria of (water + propionic acid or butyric acid + 2-methoxy-2-methylpropane) ternary systems at 298.2 K and 323.2 K
rhoI	735.40	kg/m3	298.15	Phase equilibria for binary systems of octane boosters with 2,2,4-trimethylpentane
rhoI	735.69	kg/m3	298.15	Excess molar enthalpies of the ternary mixtures: methyl tert-butyl ether + 2-methylpentane + (n-decane or n-dodecane) at the temperature 298.15 K

rhoI	735.69	kg/m3	298.15	Excess molar enthalpies of the ternary mixtures: methyl tert-butyl ether + 3-methylpentane + (n-decane or n-dodecane) at 298.15K
sfust	46.18	J/molxK	164.56	NIST Webbook
speedsl	580.10	m/s	398.11	Speed of Sound Measurements of 2-Methoxy-2-methylpropane in the Temperature Range of 293.15 and 673.15 K and for Pressures up to 10 MPa
speedsl	537.60	m/s	408.23	Speed of Sound Measurements of 2-Methoxy-2-methylpropane in the Temperature Range of 293.15 and 673.15 K and for Pressures up to 10 MPa
speedsl	515.80	m/s	413.20	Speed of Sound Measurements of 2-Methoxy-2-methylpropane in the Temperature Range of 293.15 and 673.15 K and for Pressures up to 10 MPa
speedsl	494.40	m/s	418.24	Speed of Sound Measurements of 2-Methoxy-2-methylpropane in the Temperature Range of 293.15 and 673.15 K and for Pressures up to 10 MPa
speedsl	476.00	m/s	423.15	Speed of Sound Measurements of 2-Methoxy-2-methylpropane in the Temperature Range of 293.15 and 673.15 K and for Pressures up to 10 MPa

speedsl	453.80	m/s	428.24	Speed of Sound Measurements of 2-Methoxy-2-methylpropane in the Temperature Range of 293.15 and 673.15 K and for Pressures up to 10 MPa
speedsl	430.30	m/s	433.05	Speed of Sound Measurements of 2-Methoxy-2-methylpropane in the Temperature Range of 293.15 and 673.15 K and for Pressures up to 10 MPa
speedsl	405.80	m/s	438.19	Speed of Sound Measurements of 2-Methoxy-2-methylpropane in the Temperature Range of 293.15 and 673.15 K and for Pressures up to 10 MPa
speedsl	387.30	m/s	443.09	Speed of Sound Measurements of 2-Methoxy-2-methylpropane in the Temperature Range of 293.15 and 673.15 K and for Pressures up to 10 MPa
speedsl	103.70	m/s	493.06	Speed of Sound Measurements of 2-Methoxy-2-methylpropane in the Temperature Range of 293.15 and 673.15 K and for Pressures up to 10 MPa
speedsl	360.30	m/s	448.23	Speed of Sound Measurements of 2-Methoxy-2-methylpropane in the Temperature Range of 293.15 and 673.15 K and for Pressures up to 10 MPa

speedsl	339.50	m/s	453.10	Speed of Sound Measurements of 2-Methoxy-2-methylpropane in the Temperature Range of 293.15 and 673.15 K and for Pressures up to 10 MPa
speedsl	313.60	m/s	458.19	Speed of Sound Measurements of 2-Methoxy-2-methylpropane in the Temperature Range of 293.15 and 673.15 K and for Pressures up to 10 MPa
speedsl	287.10	m/s	463.23	Speed of Sound Measurements of 2-Methoxy-2-methylpropane in the Temperature Range of 293.15 and 673.15 K and for Pressures up to 10 MPa
speedsl	265.00	m/s	468.18	Speed of Sound Measurements of 2-Methoxy-2-methylpropane in the Temperature Range of 293.15 and 673.15 K and for Pressures up to 10 MPa
speedsl	236.50	m/s	473.17	Speed of Sound Measurements of 2-Methoxy-2-methylpropane in the Temperature Range of 293.15 and 673.15 K and for Pressures up to 10 MPa
speedsl	206.10	m/s	478.08	Speed of Sound Measurements of 2-Methoxy-2-methylpropane in the Temperature Range of 293.15 and 673.15 K and for Pressures up to 10 MPa

speedsl	177.70	m/s	483.20	Speed of Sound Measurements of 2-Methoxy-2-methylpropane in the Temperature Range of 293.15 and 673.15 K and for Pressures up to 10 MPa
speedsl	142.80	m/s	488.11	Speed of Sound Measurements of 2-Methoxy-2-methylpropane in the Temperature Range of 293.15 and 673.15 K and for Pressures up to 10 MPa
speedsl	1086.62	m/s	288.15	Mixing Properties for Binary Liquid Mixtures of Methyl tert-Butyl Ether with Propylamine and Dipropylamine at Temperatures from (288.15 to 308.15) K
speedsl	1086.92	m/s	288.15	Mixing Properties for Binary Liquid Mixtures of Methyl tert-Butyl Ether with Propylamine and Dipropylamine at Temperatures from (288.15 to 308.15) K
speedsl	1063.43	m/s	293.15	Mixing Properties for Binary Liquid Mixtures of Methyl tert-Butyl Ether with Propylamine and Dipropylamine at Temperatures from (288.15 to 308.15) K
speedsl	1040.35	m/s	298.15	Mixing Properties for Binary Liquid Mixtures of Methyl tert-Butyl Ether with Propylamine and Dipropylamine at Temperatures from (288.15 to 308.15) K

speedsl	1017.42	m/s	303.15	Mixing Properties for Binary Liquid Mixtures of Methyl tert-Butyl Ether with Propylamine and Dipropylamine at Temperatures from (288.15 to 308.15) K
speedsl	994.68	m/s	308.15	Mixing Properties for Binary Liquid Mixtures of Methyl tert-Butyl Ether with Propylamine and Dipropylamine at Temperatures from (288.15 to 308.15) K
speedsl	1013.90	m/s	303.15	Influence of temperature on thermodynamics of ethers + xylenes
speedsl	609.10	m/s	393.16	Speed of Sound Measurements of 2-Methoxy-2-methylpropane in the Temperature Range of 293.15 and 673.15 K and for Pressures up to 10 MPa
speedsl	627.50	m/s	388.11	Speed of Sound Measurements of 2-Methoxy-2-methylpropane in the Temperature Range of 293.15 and 673.15 K and for Pressures up to 10 MPa
speedsl	646.40	m/s	383.08	Speed of Sound Measurements of 2-Methoxy-2-methylpropane in the Temperature Range of 293.15 and 673.15 K and for Pressures up to 10 MPa

speedsl	668.30	m/s	378.05	Speed of Sound Measurements of 2-Methoxy-2-methylpropane in the Temperature Range of 293.15 and 673.15 K and for Pressures up to 10 MPa
speedsl	698.90	m/s	373.05	Speed of Sound Measurements of 2-Methoxy-2-methylpropane in the Temperature Range of 293.15 and 673.15 K and for Pressures up to 10 MPa
speedsl	707.10	m/s	368.17	Speed of Sound Measurements of 2-Methoxy-2-methylpropane in the Temperature Range of 293.15 and 673.15 K and for Pressures up to 10 MPa
speedsl	727.10	m/s	363.16	Speed of Sound Measurements of 2-Methoxy-2-methylpropane in the Temperature Range of 293.15 and 673.15 K and for Pressures up to 10 MPa
speedsl	748.60	m/s	358.22	Speed of Sound Measurements of 2-Methoxy-2-methylpropane in the Temperature Range of 293.15 and 673.15 K and for Pressures up to 10 MPa
speedsl	558.00	m/s	403.24	Speed of Sound Measurements of 2-Methoxy-2-methylpropane in the Temperature Range of 293.15 and 673.15 K and for Pressures up to 10 MPa

speedsl	797.50	m/s	348.24	Speed of Sound Measurements of 2-Methoxy-2-methylpropane in the Temperature Range of 293.15 and 673.15 K and for Pressures up to 10 MPa
speedsl	826.30	m/s	343.12	Speed of Sound Measurements of 2-Methoxy-2-methylpropane in the Temperature Range of 293.15 and 673.15 K and for Pressures up to 10 MPa
speedsl	855.10	m/s	338.07	Speed of Sound Measurements of 2-Methoxy-2-methylpropane in the Temperature Range of 293.15 and 673.15 K and for Pressures up to 10 MPa
speedsl	876.80	m/s	333.13	Speed of Sound Measurements of 2-Methoxy-2-methylpropane in the Temperature Range of 293.15 and 673.15 K and for Pressures up to 10 MPa
speedsl	904.70	m/s	328.21	Speed of Sound Measurements of 2-Methoxy-2-methylpropane in the Temperature Range of 293.15 and 673.15 K and for Pressures up to 10 MPa
speedsl	912.40	m/s	323.07	Speed of Sound Measurements of 2-Methoxy-2-methylpropane in the Temperature Range of 293.15 and 673.15 K and for Pressures up to 10 MPa

speedsl	942.70	m/s	318.19	Speed of Sound Measurements of 2-Methoxy-2-methylpropane in the Temperature Range of 293.15 and 673.15 K and for Pressures up to 10 MPa
speedsl	960.40	m/s	313.08	Speed of Sound Measurements of 2-Methoxy-2-methylpropane in the Temperature Range of 293.15 and 673.15 K and for Pressures up to 10 MPa
speedsl	988.60	m/s	308.16	Speed of Sound Measurements of 2-Methoxy-2-methylpropane in the Temperature Range of 293.15 and 673.15 K and for Pressures up to 10 MPa
speedsl	1024.70	m/s	303.19	Speed of Sound Measurements of 2-Methoxy-2-methylpropane in the Temperature Range of 293.15 and 673.15 K and for Pressures up to 10 MPa
speedsl	990.10	m/s	308.15	Excess enthalpy, density, and speed of sound determination for the ternary mixture (methyl tert-butyl ether + 1-butanol + n-hexane)
speedsl	1013.00	m/s	303.15	Excess enthalpy, density, and speed of sound determination for the ternary mixture (methyl tert-butyl ether + 1-butanol + n-hexane)

speedsl	1036.10	m/s	298.15	Excess enthalpy, density, and speed of sound determination for the ternary mixture (methyl tert-butyl ether + 1-butanol + n-hexane)
speedsl	1059.40	m/s	293.15	Excess enthalpy, density, and speed of sound determination for the ternary mixture (methyl tert-butyl ether + 1-butanol + n-hexane)
speedsl	1082.40	m/s	288.15	Excess enthalpy, density, and speed of sound determination for the ternary mixture (methyl tert-butyl ether + 1-butanol + n-hexane)
speedsl	922.97	m/s	323.15	Influence of temperature on thermodynamics of ethers + xylenes
speedsl	934.24	m/s	320.65	Influence of temperature on thermodynamics of ethers + xylenes
speedsl	945.54	m/s	318.15	Influence of temperature on thermodynamics of ethers + xylenes
speedsl	956.80	m/s	315.65	Influence of temperature on thermodynamics of ethers + xylenes
speedsl	968.16	m/s	313.15	Influence of temperature on thermodynamics of ethers + xylenes
speedsl	979.62	m/s	310.65	Influence of temperature on thermodynamics of ethers + xylenes
speedsl	990.99	m/s	308.15	Influence of temperature on thermodynamics of ethers + xylenes

speedsl	1083.38	m/s	288.15	Influence of Temperature on Thermodynamic Properties of Methyl t-Butyl Ether (MTBE)+Gasoline Additives
speedsl	1082.11	m/s	288.15	Influence of Temperature on Thermodynamic Properties of Methyl t-Butyl Ether (MTBE)+Gasoline Additives
speedsl	1071.61	m/s	290.65	Influence of Temperature on Thermodynamic Properties of Methyl t-Butyl Ether (MTBE)+Gasoline Additives
speedsl	1070.62	m/s	290.65	Influence of Temperature on Thermodynamic Properties of Methyl t-Butyl Ether (MTBE)+Gasoline Additives
speedsl	1060.05	m/s	293.15	Influence of Temperature on Thermodynamic Properties of Methyl t-Butyl Ether (MTBE)+Gasoline Additives
speedsl	1059.10	m/s	293.15	Influence of Temperature on Thermodynamic Properties of Methyl t-Butyl Ether (MTBE)+Gasoline Additives
speedsl	1048.48	m/s	295.65	Influence of Temperature on Thermodynamic Properties of Methyl t-Butyl Ether (MTBE)+Gasoline Additives

speedsl	1047.83	m/s	295.65	Influence of Temperature on Thermodynamic Properties of Methyl t-Butyl Ether (MTBE)+Gasoline Additives	
speedsl	1036.94	m/s	298.15	Influence of Temperature on Thermodynamic Properties of Methyl t-Butyl Ether (MTBE)+Gasoline Additives	
speedsl	1036.63	m/s	298.15	Influence of Temperature on Thermodynamic Properties of Methyl t-Butyl Ether (MTBE)+Gasoline Additives	
speedsl	1025.42	m/s	300.65	Influence of Temperature on Thermodynamic Properties of Methyl t-Butyl Ether (MTBE)+Gasoline Additives	
speedsl	1025.38	m/s	300.65	Influence of Temperature on Thermodynamic Properties of Methyl t-Butyl Ether (MTBE)+Gasoline Additives	
speedsl	1024.33	m/s	301.65	Influence of Temperature on Thermodynamic Properties of Methyl t-Butyl Ether (MTBE)+Gasoline Additives	
speedsl	1013.90	m/s	303.15	Influence of Temperature on Thermodynamic Properties of Methyl t-Butyl Ether (MTBE)+Gasoline Additives	

speedsl	1014.04	m/s	303.15	Influence of Temperature on Thermodynamic Properties of Methyl t-Butyl Ether (MTBE)+Gasoline Additives
speedsl	1012.81	m/s	303.15	Influence of Temperature on Thermodynamic Properties of Methyl t-Butyl Ether (MTBE)+Gasoline Additives
speedsl	1002.41	m/s	305.65	Influence of Temperature on Thermodynamic Properties of Methyl t-Butyl Ether (MTBE)+Gasoline Additives
speedsl	1002.70	m/s	305.65	Influence of Temperature on Thermodynamic Properties of Methyl t-Butyl Ether (MTBE)+Gasoline Additives
speedsl	1001.35	m/s	305.65	Influence of Temperature on Thermodynamic Properties of Methyl t-Butyl Ether (MTBE)+Gasoline Additives
speedsl	990.99	m/s	308.15	Influence of Temperature on Thermodynamic Properties of Methyl t-Butyl Ether (MTBE)+Gasoline Additives
speedsl	991.34	m/s	308.15	Influence of Temperature on Thermodynamic Properties of Methyl t-Butyl Ether (MTBE)+Gasoline Additives

speedsl	989.90	m/s	308.15	Influence of Temperature on Thermodynamic Properties of Methyl t-Butyl Ether (MTBE)+Gasoline Additives	
speedsl	979.62	m/s	310.65	Influence of Temperature on Thermodynamic Properties of Methyl t-Butyl Ether (MTBE)+Gasoline Additives	
speedsl	980.00	m/s	310.65	Influence of Temperature on Thermodynamic Properties of Methyl t-Butyl Ether (MTBE)+Gasoline Additives	
speedsl	978.47	m/s	310.65	Influence of Temperature on Thermodynamic Properties of Methyl t-Butyl Ether (MTBE)+Gasoline Additives	
speedsl	968.16	m/s	313.15	Influence of Temperature on Thermodynamic Properties of Methyl t-Butyl Ether (MTBE)+Gasoline Additives	
speedsl	968.63	m/s	313.15	Influence of Temperature on Thermodynamic Properties of Methyl t-Butyl Ether (MTBE)+Gasoline Additives	
speedsl	967.03	m/s	313.15	Influence of Temperature on Thermodynamic Properties of Methyl t-Butyl Ether (MTBE)+Gasoline Additives	

speedsl	956.80	m/s	315.65	Influence of Temperature on Thermodynamic Properties of Methyl t-Butyl Ether (MTBE)+Gasoline Additives
speedsl	957.31	m/s	315.65	Influence of Temperature on Thermodynamic Properties of Methyl t-Butyl Ether (MTBE)+Gasoline Additives
speedsl	955.73	m/s	315.65	Influence of Temperature on Thermodynamic Properties of Methyl t-Butyl Ether (MTBE)+Gasoline Additives
speedsl	945.54	m/s	318.15	Influence of Temperature on Thermodynamic Properties of Methyl t-Butyl Ether (MTBE)+Gasoline Additives
speedsl	946.03	m/s	318.15	Influence of Temperature on Thermodynamic Properties of Methyl t-Butyl Ether (MTBE)+Gasoline Additives
speedsl	944.34	m/s	318.15	Influence of Temperature on Thermodynamic Properties of Methyl t-Butyl Ether (MTBE)+Gasoline Additives
speedsl	934.24	m/s	320.65	Influence of Temperature on Thermodynamic Properties of Methyl t-Butyl Ether (MTBE)+Gasoline Additives

speedsl	934.76	m/s	320.65	Influence of Temperature on Thermodynamic Properties of Methyl t-Butyl Ether (MTBE)+Gasoline Additives
speedsl	933.01	m/s	320.65	Influence of Temperature on Thermodynamic Properties of Methyl t-Butyl Ether (MTBE)+Gasoline Additives
speedsl	922.97	m/s	323.15	Influence of Temperature on Thermodynamic Properties of Methyl t-Butyl Ether (MTBE)+Gasoline Additives
speedsl	923.46	m/s	323.15	Influence of Temperature on Thermodynamic Properties of Methyl t-Butyl Ether (MTBE)+Gasoline Additives
speedsl	921.93	m/s	323.15	Influence of Temperature on Thermodynamic Properties of Methyl t-Butyl Ether (MTBE)+Gasoline Additives
speedsl	1083.38	m/s	288.15	Influence of temperature on thermodynamics of ethers + xylenes
speedsl	1071.61	m/s	290.65	Influence of temperature on thermodynamics of ethers + xylenes
speedsl	1060.05	m/s	293.15	Influence of temperature on thermodynamics of ethers + xylenes
speedsl	1048.48	m/s	295.65	Influence of temperature on thermodynamics of ethers + xylenes

speedsl	1036.94	m/s	298.15	Influence of temperature on thermodynamics of ethers + xylenes	
speedsl	1025.42	m/s	300.65	Influence of temperature on thermodynamics of ethers + xylenes	
speedsl	781.50	m/s	353.11	Speed of Sound Measurements of 2-Methoxy-2-methylpropane in the Temperature Range of 293.15 and 673.15 K and for Pressures up to 10 MPa	
speedsl	1002.41	m/s	305.65	Influence of temperature on thermodynamics of ethers + xylenes	
srf	0.02	N/m	243.08	Surface Tension of Dimethoxymethane and Methyl tert-Butyl Ether	
srf	0.01	N/m	388.14	Surface Tension of Dimethoxymethane and Methyl tert-Butyl Ether	
srf	0.01	N/m	383.12	Surface Tension of Dimethoxymethane and Methyl tert-Butyl Ether	
srf	0.01	N/m	378.12	Surface Tension of Dimethoxymethane and Methyl tert-Butyl Ether	
srf	0.01	N/m	373.12	Surface Tension of Dimethoxymethane and Methyl tert-Butyl Ether	
srf	0.01	N/m	368.13	Surface Tension of Dimethoxymethane and Methyl tert-Butyl Ether	
srf	0.01	N/m	363.13	Surface Tension of Dimethoxymethane and Methyl tert-Butyl Ether	

srf	0.01	N/m	393.13	Surface Tension of Dimethoxymethane and Methyl tert-Butyl Ether
srf	0.01	N/m	353.13	Surface Tension of Dimethoxymethane and Methyl tert-Butyl Ether
srf	0.01	N/m	348.13	Surface Tension of Dimethoxymethane and Methyl tert-Butyl Ether
srf	0.01	N/m	343.13	Surface Tension of Dimethoxymethane and Methyl tert-Butyl Ether
srf	0.01	N/m	338.16	Surface Tension of Dimethoxymethane and Methyl tert-Butyl Ether
srf	0.01	N/m	333.15	Surface Tension of Dimethoxymethane and Methyl tert-Butyl Ether
srf	0.01	N/m	328.14	Surface Tension of Dimethoxymethane and Methyl tert-Butyl Ether
srf	0.01	N/m	358.15	Surface Tension of Dimethoxymethane and Methyl tert-Butyl Ether
srf	0.02	N/m	318.11	Surface Tension of Dimethoxymethane and Methyl tert-Butyl Ether
srf	0.02	N/m	313.16	Surface Tension of Dimethoxymethane and Methyl tert-Butyl Ether
srf	0.02	N/m	308.15	Surface Tension of Dimethoxymethane and Methyl tert-Butyl Ether
srf	0.02	N/m	303.11	Surface Tension of Dimethoxymethane and Methyl tert-Butyl Ether

srf	0.02	N/m	298.08	Surface Tension of Dimethoxymethane and Methyl tert-Butyl Ether
srf	0.02	N/m	293.07	Surface Tension of Dimethoxymethane and Methyl tert-Butyl Ether
srf	0.02	N/m	288.13	Surface Tension of Dimethoxymethane and Methyl tert-Butyl Ether
srf	0.02	N/m	283.12	Surface Tension of Dimethoxymethane and Methyl tert-Butyl Ether
srf	0.02	N/m	278.11	Surface Tension of Dimethoxymethane and Methyl tert-Butyl Ether
srf	0.02	N/m	273.16	Surface Tension of Dimethoxymethane and Methyl tert-Butyl Ether
srf	0.02	N/m	268.13	Surface Tension of Dimethoxymethane and Methyl tert-Butyl Ether
srf	0.02	N/m	263.10	Surface Tension of Dimethoxymethane and Methyl tert-Butyl Ether
srf	0.02	N/m	258.13	Surface Tension of Dimethoxymethane and Methyl tert-Butyl Ether
srf	0.02	N/m	253.11	Surface Tension of Dimethoxymethane and Methyl tert-Butyl Ether
srf	0.02	N/m	248.01	Surface Tension of Dimethoxymethane and Methyl tert-Butyl Ether
srf	0.02	N/m	323.16	Surface Tension of Dimethoxymethane and Methyl tert-Butyl Ether

tdiff	2.73e-08	m2/s	493.15	Thermal Diffusivity of 2-Methoxy-2-methylpropane at Temperatures from (303.15 to 493.15) K and Pressures from (1.5 to 10) MPa
tdiff	2.81e-08	m2/s	491.15	Thermal Diffusivity of 2-Methoxy-2-methylpropane at Temperatures from (303.15 to 493.15) K and Pressures from (1.5 to 10) MPa
tdiff	2.95e-08	m2/s	489.15	Thermal Diffusivity of 2-Methoxy-2-methylpropane at Temperatures from (303.15 to 493.15) K and Pressures from (1.5 to 10) MPa
tdiff	3.02e-08	m2/s	487.15	Thermal Diffusivity of 2-Methoxy-2-methylpropane at Temperatures from (303.15 to 493.15) K and Pressures from (1.5 to 10) MPa
tdiff	3.07e-08	m2/s	485.15	Thermal Diffusivity of 2-Methoxy-2-methylpropane at Temperatures from (303.15 to 493.15) K and Pressures from (1.5 to 10) MPa
tdiff	3.22e-08	m2/s	483.15	Thermal Diffusivity of 2-Methoxy-2-methylpropane at Temperatures from (303.15 to 493.15) K and Pressures from (1.5 to 10) MPa
tdiff	3.30e-08	m2/s	481.15	Thermal Diffusivity of 2-Methoxy-2-methylpropane at Temperatures from (303.15 to 493.15) K and Pressures from (1.5 to 10) MPa

tdiff	3.36e-08	m2/s	479.15	Thermal Diffusivity of 2-Methoxy-2-methylpropane at Temperatures from (303.15 to 493.15) K and Pressures from (1.5 to 10) MPa
tdiff	3.36e-08	m2/s	477.15	Thermal Diffusivity of 2-Methoxy-2-methylpropane at Temperatures from (303.15 to 493.15) K and Pressures from (1.5 to 10) MPa
tdiff	3.47e-08	m2/s	475.15	Thermal Diffusivity of 2-Methoxy-2-methylpropane at Temperatures from (303.15 to 493.15) K and Pressures from (1.5 to 10) MPa
tdiff	3.55e-08	m2/s	473.15	Thermal Diffusivity of 2-Methoxy-2-methylpropane at Temperatures from (303.15 to 493.15) K and Pressures from (1.5 to 10) MPa
tdiff	3.66e-08	m2/s	468.15	Thermal Diffusivity of 2-Methoxy-2-methylpropane at Temperatures from (303.15 to 493.15) K and Pressures from (1.5 to 10) MPa
tdiff	3.86e-08	m2/s	463.15	Thermal Diffusivity of 2-Methoxy-2-methylpropane at Temperatures from (303.15 to 493.15) K and Pressures from (1.5 to 10) MPa
tdiff	3.91e-08	m2/s	458.15	Thermal Diffusivity of 2-Methoxy-2-methylpropane at Temperatures from (303.15 to 493.15) K and Pressures from (1.5 to 10) MPa

tdiff	4.05e-08	m2/s	453.15	Thermal Diffusivity of 2-Methoxy-2-methylpropane at Temperatures from (303.15 to 493.15) K and Pressures from (1.5 to 10) MPa
tdiff	4.18e-08	m2/s	443.15	Thermal Diffusivity of 2-Methoxy-2-methylpropane at Temperatures from (303.15 to 493.15) K and Pressures from (1.5 to 10) MPa
tdiff	4.31e-08	m2/s	433.15	Thermal Diffusivity of 2-Methoxy-2-methylpropane at Temperatures from (303.15 to 493.15) K and Pressures from (1.5 to 10) MPa
tdiff	4.38e-08	m2/s	423.15	Thermal Diffusivity of 2-Methoxy-2-methylpropane at Temperatures from (303.15 to 493.15) K and Pressures from (1.5 to 10) MPa
tdiff	4.48e-08	m2/s	413.15	Thermal Diffusivity of 2-Methoxy-2-methylpropane at Temperatures from (303.15 to 493.15) K and Pressures from (1.5 to 10) MPa
tdiff	4.55e-08	m2/s	403.15	Thermal Diffusivity of 2-Methoxy-2-methylpropane at Temperatures from (303.15 to 493.15) K and Pressures from (1.5 to 10) MPa
tdiff	4.64e-08	m2/s	393.15	Thermal Diffusivity of 2-Methoxy-2-methylpropane at Temperatures from (303.15 to 493.15) K and Pressures from (1.5 to 10) MPa

tdiff	4.72e-08	m2/s	383.15	Thermal Diffusivity of 2-Methoxy-2-methylpropane at Temperatures from (303.15 to 493.15) K and Pressures from (1.5 to 10) MPa
tdiff	5.42e-08	m2/s	343.15	Thermal Diffusivity of 2-Methoxy-2-methylpropane at Temperatures from (303.15 to 493.15) K and Pressures from (1.5 to 10) MPa
tdiff	5.05e-08	m2/s	363.15	Thermal Diffusivity of 2-Methoxy-2-methylpropane at Temperatures from (303.15 to 493.15) K and Pressures from (1.5 to 10) MPa
tdiff	5.26e-08	m2/s	353.15	Thermal Diffusivity of 2-Methoxy-2-methylpropane at Temperatures from (303.15 to 493.15) K and Pressures from (1.5 to 10) MPa
tdiff	5.70e-08	m2/s	333.15	Thermal Diffusivity of 2-Methoxy-2-methylpropane at Temperatures from (303.15 to 493.15) K and Pressures from (1.5 to 10) MPa
tdiff	5.87e-08	m2/s	323.15	Thermal Diffusivity of 2-Methoxy-2-methylpropane at Temperatures from (303.15 to 493.15) K and Pressures from (1.5 to 10) MPa
tdiff	6.17e-08	m2/s	313.15	Thermal Diffusivity of 2-Methoxy-2-methylpropane at Temperatures from (303.15 to 493.15) K and Pressures from (1.5 to 10) MPa

tdiff	6.40e-08	m2/s	303.15	Thermal Diffusivity of 2-Methoxy-2-methylpropane at Temperatures from (303.15 to 493.15) K and Pressures from (1.5 to 10) MPa
tdiff	4.83e-08	m2/s	373.15	Thermal Diffusivity of 2-Methoxy-2-methylpropane at Temperatures from (303.15 to 493.15) K and Pressures from (1.5 to 10) MPa

Correlations

Information	Value
Property code	pvap
Equation	$\ln(P_{vp}) = A + B/(T + C)$
Coeff. A	1.53357e+01
Coeff. B	-3.16987e+03
Coeff. C	-3.24310e+01
Temperature range (K), min.	243.08
Temperature range (K), max.	348.65

Information	Value
Property code	pvap
Equation	$\ln(P_{vp}) = A + B/T + C*\ln(T) + D*T^2$
Coeff. A	6.49173e+01
Coeff. B	-5.55710e+03
Coeff. C	-7.60854e+00
Coeff. D	6.59025e-06
Temperature range (K), min.	164.55
Temperature range (K), max.	497.10

Datasets

Mass density, kg/m3

Temperature, K - Liquid	Pressure, kPa - Liquid	Mass density, kg/m3 - Liquid
283.15	100.00	750.94
288.15	100.00	745.79
293.15	100.00	740.59
298.15	100.00	735.34
303.15	100.00	730.04
308.15	100.00	724.69
313.15	100.00	719.29
318.15	100.00	713.84
323.15	100.00	708.45
283.15	5000.00	756.29
288.15	5000.00	751.33
293.15	5000.00	746.34
298.15	5000.00	741.32
303.15	5000.00	736.27
308.15	5000.00	731.19
313.15	5000.00	726.07
318.15	5000.00	720.92
323.15	5000.00	715.73
283.15	10000.00	761.29
288.15	10000.00	756.52
293.15	10000.00	751.7
298.15	10000.00	746.89
303.15	10000.00	742.05
308.15	10000.00	737.18
313.15	10000.00	732.27
318.15	10000.00	727.36
323.15	10000.00	722.39
283.15	15000.00	765.93
288.15	15000.00	761.32
293.15	15000.00	756.68
298.15	15000.00	752.04
303.15	15000.00	747.37
308.15	15000.00	742.69
313.15	15000.00	737.97
318.15	15000.00	733.26
323.15	15000.00	728.51
283.15	20000.00	770.32
288.15	20000.00	765.86
293.15	20000.00	761.35

298.15	20000.00	756.85
303.15	20000.00	752.37
308.15	20000.00	747.84
313.15	20000.00	743.29
318.15	20000.00	738.74
323.15	20000.00	734.2
283.15	25000.00	774.48
288.15	25000.00	770.15
293.15	25000.00	765.77
298.15	25000.00	761.42
303.15	25000.00	757.05
308.15	25000.00	752.67
313.15	25000.00	748.27
318.15	25000.00	743.91
323.15	25000.00	739.51
283.15	30000.00	778.47
288.15	30000.00	774.24
293.15	30000.00	770.01
298.15	30000.00	765.75
303.15	30000.00	761.51
308.15	30000.00	757.26
313.15	30000.00	752.99
318.15	30000.00	748.75
323.15	30000.00	744.49
283.15	35000.00	782.29
288.15	35000.00	778.15
293.15	35000.00	774.0
298.15	35000.00	769.88
303.15	35000.00	765.74
308.15	35000.00	761.6
313.15	35000.00	757.46
318.15	35000.00	753.35
323.15	35000.00	749.2
283.15	40000.00	785.94
288.15	40000.00	781.89
293.15	40000.00	777.85
298.15	40000.00	773.81
303.15	40000.00	769.79
308.15	40000.00	765.75
313.15	40000.00	761.71
318.15	40000.00	757.7
323.15	40000.00	753.67
283.15	45000.00	789.45
288.15	45000.00	785.49

293.15	45000.00	781.54
298.15	45000.00	777.6
303.15	45000.00	773.65
308.15	45000.00	769.71
313.15	45000.00	765.77
318.15	45000.00	761.86
323.15	45000.00	757.92
283.15	50000.00	792.86
288.15	50000.00	788.97
293.15	50000.00	785.09
298.15	50000.00	781.23
303.15	50000.00	777.36
308.15	50000.00	773.49
313.15	50000.00	769.65
318.15	50000.00	765.83
323.15	50000.00	761.98
283.15	55000.00	796.13
288.15	55000.00	792.3
293.15	55000.00	788.51
298.15	55000.00	784.71
303.15	55000.00	780.95
308.15	55000.00	777.14
313.15	55000.00	773.39
318.15	55000.00	769.63
323.15	55000.00	765.85
283.15	60000.00	799.29
288.15	60000.00	795.55
293.15	60000.00	791.81
298.15	60000.00	788.1
303.15	60000.00	784.37
308.15	60000.00	780.65
313.15	60000.00	776.97
318.15	60000.00	773.29
323.15	60000.00	769.61
283.15	65000.00	802.37
288.15	65000.00	798.67
293.15	65000.00	795.0
298.15	65000.00	791.36
303.15	65000.00	787.7
308.15	65000.00	784.04
313.15	65000.00	780.41
318.15	65000.00	776.82
323.15	65000.00	773.22

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Separation of binary mixtures based on limiting activity coefficients data using Spencer and Danner's equation for liquid-liquid and solid-liquid systems. Liquid-Liquid Equilibrium Data for Binary and Ternary Mixtures Containing Methanol, Methyl Ethyl Ether, and Diethyl Ether at 315 K: Phase Diagrams and Vapor Pressure of Binary Mixtures: Methanol and Methyl Ethyl Ether: Phase Diagrams and Vapor Pressure of Binary Mixtures: Methanol and Diethyl Ether: Solubility of Diethyl Ether in Twelve Pure and Binary Liquid Organic Solvents at 298.15 K: Vapor Pressures of Binary Mixtures of Diethyl Ether with Benzene and Toluene in Binary Solvents Formed by Some Hydrocarbons with tert-Butyl Methyl Ether and with tert-Amyl Methyl Ether:

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systemic composed of toluene,
dodecane and diisopropyl ether
heretofore at Orleans at 298.15 MPa
298.15 K. The vapor pressure:
Quaternary (liquid + liquid) equilibria
for (water + 1,1-dimethylethyl methyl
ether + diisopropyl ether + toluene) at
the temperature 298.15 K:

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Excess Enthalpy, Density, and Speed of Sound for the Ternary Mixture of 2-methoxy-2-methylpropane + 1-alkanol, decane: Thermodynamic study of molecular interaction selectivity in separation processes based on increasing the chain length of the alkanol in excess liquid-liquid Equilibria for the Ternary System: 2-methoxy-2-methylpropane + 1-alkanol, decane:

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Legend

af:	Acentric Factor
affp:	Proton affinity
basg:	Gas basicity
chl:	Standard liquid enthalpy of combustion
cpg:	Ideal gas heat capacity
cpl:	Liquid phase heat capacity
dm:	Dipole Moment
dvisc:	Dynamic viscosity
gf:	Standard Gibbs free energy of formation
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
kvisc:	Kinematic viscosity
log10ws:	Log10 of Water solubility in mol/l
logp:	Octanol/Water partition coefficient
mcvol:	McGowan's characteristic volume
pc:	Critical Pressure
pvap:	Vapor pressure
rfi:	Refractive Index
rho:	Liquid Density
rinpol:	Non-polar retention indices
ripol:	Polar retention indices
sfust:	Entropy of fusion at a given temperature
sg:	Molar entropy at standard conditions
sl:	Liquid phase molar entropy at standard conditions
speedsl:	Speed of sound in fluid
srf:	Surface Tension
tb:	Normal Boiling Point Temperature
tc:	Critical Temperature
tdiff:	Thermal diffusivity

tf:	Normal melting (fusion) point
tt:	Triple Point Temperature
vc:	Critical Volume
zc:	Critical Compressibility

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