o-Xylene

Other names:	1,2-Dimethylbenzene
	1,2-Xylene
	1,2-dimethyl-benzene (o-xylene)
	2-Methyltoluene
	3,4-Xylene
	Benzene, 1,2-dimethyl-
	NSC 60920
	o-Dimethylbenzene
	o-Methyltoluene
	o-Xylol
	ortho-Xylene
Inchi:	InChI=1S/C8H10/c1-7-5-3-4-6-8(7)2/h3-6H,1-2H3
InchiKey:	CTQNGGLPUBDAKN-UHFFFAOYSA-N
Formula:	C8H10
SMILES:	Cc1ccccc1C
Mol. weight [g/mol]:	106.17
CAS:	95-47-6

Physical Properties

Property code	Value	Unit	Source
af	0.3100		KDB
affp	793.50 ± 1.70	kJ/mol	NIST Webbook
affp	796.00	kJ/mol	NIST Webbook
affp	791.20	kJ/mol	NIST Webbook
aigt	738.15	K	KDB
basg	768.30	kJ/mol	NIST Webbook
basg	772.10 ± 2.20	kJ/mol	NIST Webbook
basg	765.30	kJ/mol	NIST Webbook
chl	-4552.90 ± 1.00	kJ/mol	NIST Webbook
chl	-4567.60	kJ/mol	NIST Webbook
chl	-4551.48 ± 0.50	kJ/mol	NIST Webbook
chl	-4581.40	kJ/mol	NIST Webbook
cpl	187.28	J/mol×K	Thermodynamics of mixtures involving some (benzene derivatives + benzonitrile)
dm	0.50	debye	KDB

dvisc	0.0007680	Pa×s	Viscosities, Densities, and Speeds of Sound of Binary Mixtures of o-Xylene, m-Xylene, p-Xylene, and Isopropylbenzene with 2-Butanone at 298.15 K
dvisc	0.0007690	Pa×s	Viscosities, Densities, and Speeds of Sound of Binary Mixtures of o-Xylene, m-Xylene, p-Xylene, and Isopropylbenzene with 4-Methylpentan-2-one at 298.15 K
ep	36.90	J/mol×K	NIST Webbook
fll	1.10	% in Air	KDB
flu	7.00	% in Air	KDB
fpc	297.04	K	KDB
fpo	290.37	K	KDB
gf	122.20	kJ/mol	KDB
gyrad	3.7890		KDB
hcg	4552.86	kJ/mol	KDB
hcn	4332.784	kJ/mol	KDB
hf	19.00	kJ/mol	KDB
hf	19.00 ± 1.10	kJ/mol	NIST Webbook
hfl	-24.40 ± 1.10	kJ/mol	NIST Webbook
hfus	10.13	kJ/mol	Joback Method
hvap	36.34	kJ/mol	Joback Method
ie	8.56 ± 0.02	eV	NIST Webbook
ie	8.56 ± 0.01	eV	NIST Webbook
ie	8.75 ± 0.03	eV	NIST Webbook
ie	8.56 ± 0.04	eV	NIST Webbook
ie	8.57 ± 0.03	eV	NIST Webbook
ie	8.55	eV	NIST Webbook
ie	8.85 ± 0.05	eV	NIST Webbook
ie	8.45 ± 0.02	eV	NIST Webbook
ie	8.58 ± 0.01	eV	NIST Webbook
ie	8.56 ± 0.01	eV	NIST Webbook
ie	8.70	eV	NIST Webbook
ie	8.60 ± 0.10	eV	NIST Webbook
ie	8.57	eV	NIST Webbook
ie	8.61	eV	NIST Webbook
ie	8.56	eV	NIST Webbook
log10ws	-2.80		Estimated Solubility Method
log10ws	-2.80		Aqueous Solubility Prediction Method
logp	2.303		Crippen Method
mcvol	99.820	ml/mol	McGowan Method
nfpaf	%!d(float64=3)		KDB

nfpah	%!d(float64=2)		KDB
pc	3732.00	kPa	KDB
rhoc	286.54 ± 5.31	kg/m3	NIST Webbook
rhoc	287.71 ± 4.25	kg/m3	NIST Webbook
rhoc	286.65 ± 4.25	kg/m3	NIST Webbook
rinpol	879.50		NIST Webbook
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ripol	1232.00		NIST Webbook
ripol	1186.00		NIST Webbook
ripol	1182.00		NIST Webbook
ripol	1183.00		NIST Webbook
sg	353.60 ± 1.30	J/mol×K	NIST Webbook
sl	246.02	J/mol×K	NIST Webbook
sl	248.10	J/mol×K	NIST Webbook
tb	417.50	K	Isobaric vapor-liquid equilibrium for binary systemsof toluene + o-xylene, benzene + o-xylene, nonane + benzene and nonane + heptane at 101.3 kPa

tb	417.55	K	Vapor-Liquid Equilibria Data for Binary Systems of Ethylbenzene + Xylene Isomers at 100.65 kPa
tb	417.56	K	Isobaric Vapor-Liquid Equilibium for the Binary Systems of Methyl Formate with o-Xylene, m-Xylene, p-Xylene, and Ethylbenzene at 101.33 kPa
tb	417.60	K	KDB
tb	417.43	K	Measurement and Correlation of Vapor-Liquid Equilibrium for Binary Systems of Dimethyl Carbonate with Butyl Butyrate, o-Xylene, and Cyclohexanone at 101.3 kPa
tc	630.30	K	KDB
tf	247.90	K	KDB
tf	248.08	K	Aqueous Solubility Prediction Method
tt	247.80 ± 0.25	K	NIST Webbook
vc	0.370	m3/kmol	NIST Webbook
vc	0.370	m3/kmol	KDB
zc	0.2634870		KDB
zra	0.26		KDB

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	182.00 ± 1.70	J/mol×K	428.00	NIST Webbook
cpg	192.50 ± 2.10	J/mol×K	463.00	NIST Webbook
cpg	168.20 ± 1.70	J/mol×K	393.00	NIST Webbook
cpl	187.65	J/mol×K	298.15	NIST Webbook
cpl	182.40	J/mol×K	303.00	NIST Webbook
cpl	183.89	J/mol×K	298.10	NIST Webbook
cpl	187.82	J/mol×K	298.15	NIST Webbook
cpl	187.00	J/mol×K	298.00	NIST Webbook
cpl	206.70	J/mol×K	347.00	NIST Webbook
cpl	187.58	J/mol×K	298.15	NIST Webbook

dvisc	0.0006210	Pa×s	313.15	Viscosity, Density, and Refractive Index of Some (Ester + Hydrocarbon) Binary Mixtures at 303.15 K and 313.15 K
dvisc	0.0005600	Pa×s	323.15	Viscometric Studies of Molecular Interactions in Binary Liquid Mixtures of Isomeric Xylenes with Methanol
dvisc	0.0005910	Pa×s	318.15	Viscometric Studies of Molecular Interactions in Binary Liquid Mixtures of Isomeric Xylenes with Methanol
dvisc	0.0008092	Pa×s	293.15	Viscosities, Densities, and Ultrasonic Velocities of 3-Pentanone + Ethylbenzene and 3-Pentanone + o-Xylene at (293.15, 303.15, and 313.15) K
dvisc	0.0007172	Pa×s	303.15	Viscosities, Densities, and Ultrasonic Velocities of 3-Pentanone + Ethylbenzene and 3-Pentanone + o-Xylene at (293.15, 303.15, and 313.15) K
dvisc	0.0006292	Pa×s	313.15	Viscosities, Densities, and Ultrasonic Velocities of 3-Pentanone + Ethylbenzene and 3-Pentanone + o-Xylene at (293.15, 303.15, and 313.15) K

dvisc	0.0007590	Pa×s	298.15	Densities, Excess Molar Volumes, Viscosities, Speeds of Sound, Excess Isentropic Compressibilities, and Relative Permittivities for CmH2m+1(OCH2CH2)nOH (m) 1 or 2 or 4 andn) 1) + Benzene, + Toluene, + (o-, m-, and p-) Xylenes, + Ethylbenzene, and + Cyclohexane
dvisc	0.0006580	Pa×s	308.15	Densities, Excess Molar Volumes, Viscosities, Speeds of Sound, Excess Isentropic Compressibilities, and Relative Permittivities for CmH2m+1(OCH2CH2)nOH (m) 1 or 2 or 4 andn) 1) + Benzene, + Toluene, + (o-, m-, and p-) Xylenes, + Ethylbenzene, and + Cyclohexane
dvisc	0.0007440	Pa×s	298.15	Excess Molar Volumes and Viscosities of Binary Mixtures of Sulfolane with Benzene, Toluene, Ethylbenzene, p-Xylene, o-Xylene, and m-Xylene at 303.15 and 323.15 K and Atmospheric Pressure

dvisc	0.0007062	Pa×s	303.15	Excess Molar Volumes and Viscosities of Binary Mixtures of Sulfolane with Benzene, Toluene, Ethylbenzene, p-Xylene, o-Xylene, and m-Xylene at 303.15 and 323.15 K and Atmospheric Pressure	
dvisc	0.0006280	Pa×s	313.15	Viscometric Studies of Molecular Interactions in Binary Liquid Mixtures of Isomeric Xylenes with Methanol	
dvisc	0.0006660	Pa×s	308.15	Viscometric Studies of Molecular Interactions in Binary Liquid Mixtures of Isomeric Xylenes with Methanol	
dvisc	0.0007100	Pa×s	303.15	Viscometric Studies of Molecular Interactions in Binary Liquid Mixtures of Isomeric Xylenes with Methanol	
dvisc	0.0005972	Pa×s	318.15	Ultrasonic and viscometric study of molecular interactions in binary mixtures of aniline with 1-propanol, 2-propanol, 2-methyl-1-propanol, and 2-methyl-2-propanol at different temperatures	
dvisc	0.0005890	Pa×s	318.15	Densities and Viscosities of Binary Mixtures of Methyl 4-Chlorobutyrate with Aromatic Hydrocarbons at T) (298.15 to 318.15) K	

dvisc	0.0006650	Pa×s	308.15	Densities and Viscosities of Binary Mixtures of Methyl 4-Chlorobutyrate with Aromatic Hydrocarbons at T) (298.15 to 318.15) K	
dvisc	0.0007580	Pa×s	298.15	Densities and Viscosities of Binary Mixtures of Methyl 4-Chlorobutyrate with Aromatic Hydrocarbons at T) (298.15 to 318.15) K	
dvisc	0.0006210	Pa×s	313.15	Thermophysical Properties of Isoamyl Acetate or Methyl Benzoate + Hydrocarbon Binary Mixtures, at (303.15 and 313.15) K	
dvisc	0.0006950	Pa×s	303.15	Thermophysical Properties of Isoamyl Acetate or Methyl Benzoate + Hydrocarbon Binary Mixtures, at (303.15 and 313.15) K	
dvisc	0.0005105	Pa×s	333.15	Densities and Viscosities of Binary Mixtures of Vitamin K3 with Benzene, Toluene, Ethylbenzene, o-Xylene, m-Xylene, and p-Xylene from (303.15 to 333.15) K	
dvisc	0.0005433	Pa×s	328.15	Densities and Viscosities of Binary Mixtures of Vitamin K3 with Benzene, Toluene, Ethylbenzene, o-Xylene, m-Xylene, and p-Xylene from (303.15 to 333.15) K	

dvisc	0.0005711	Pa×s	323.15	Densities and Viscosities of Binary Mixtures of Vitamin K3 with Benzene, Toluene, Ethylbenzene, o-Xylene, m-Xylene, and p-Xylene from (303.15 to 333.15) K	
dvisc	0.0006117	Pa×s	318.15	Densities and Viscosities of Binary Mixtures of Vitamin K3 with Benzene, Toluene, Ethylbenzene, o-Xylene, m-Xylene, and p-Xylene from (303.15 to 333.15) K	
dvisc	0.0005554	Pa×s	323.15	Excess Molar Volumes and Viscosities of Binary Mixtures of Sulfolane with Benzene, Toluene, Ethylbenzene, p-Xylene, o-Xylene, and m-Xylene at 303.15 and 323.15 K and Atmospheric Pressure	
dvisc	0.0006451	Pa×s	313.15	Densities and Viscosities of Binary Mixtures of Vitamin K3 with Benzene, Toluene, Ethylbenzene, o-Xylene, m-Xylene, and p-Xylene from (303.15 to 333.15) K	
dvisc	0.0006900	Pa×s	308.15	Densities and Viscosities of Binary Mixtures of Vitamin K3 with Benzene, Toluene, Ethylbenzene, o-Xylene, m-Xylene, and p-Xylene from (303.15 to 333.15) K	

dvisc	0.0007404	Pa×s	303.15	Densities and Viscosities of Binary Mixtures of Vitamin K3 with Benzene, Toluene, Ethylbenzene, o-Xylene, m-Xylene, and p-Xylene from (303.15 to 333.15) K
dvisc	0.0004136	Pa×s	353.15	Densities and Viscosities of N-Formylmorpholine (NFM) + p-Xylene, + o-Xylene, + m-Xylene at Different Temperatures and Atmospheric Pressure
dvisc	0.0004544	Pa×s	343.15	Densities and Viscosities of N-Formylmorpholine (NFM) + p-Xylene, + o-Xylene, + m-Xylene at Different Temperatures and Atmospheric Pressure
dvisc	0.0005020	Pa×s	333.15	Densities and Viscosities of N-Formylmorpholine (NFM) + p-Xylene, + o-Xylene, + m-Xylene at Different Temperatures and Atmospheric Pressure
dvisc	0.0005584	Pa×s	323.15	Densities and Viscosities of N-Formylmorpholine (NFM) + p-Xylene, + o-Xylene, + m-Xylene at Different Temperatures and Atmospheric Pressure

dvisc	0.0006261	Pa×s	313.15	Densities and Viscosities of N-Formylmorpholine (NFM) + p-Xylene, + o-Xylene, + m-Xylene at Different Temperatures and Atmospheric Pressure
dvisc	0.0007095	Pa×s	303.15	Densities and Viscosities of N-Formylmorpholine (NFM) + p-Xylene, + o-Xylene, + m-Xylene at Different Temperatures and Atmospheric Pressure
dvisc	0.0007610	Pa×s	298.15	Densities and Viscosities of N-Formylmorpholine (NFM) + p-Xylene, + o-Xylene, + m-Xylene at Different Temperatures and Atmospheric Pressure
dvisc	0.0005910	Pa×s	318.15	Density and Viscosity of the Binary Mixtures of Hexan-1-ol with Isomeric Xylenes at T = (308.15 and 318.15) K and Atmospheric Pressure
dvisc	0.0006660	Pa×s	308.15	Density and Viscosity of the Binary Mixtures of Hexan-1-ol with Isomeric Xylenes at T = (308.15 and 318.15) K and Atmospheric Pressure

dvisc	0.0007080	Pa×s	303.15	Viscosities, Densities, and Speeds of Sound of Binary Mixtures of Benzene, Toluene, o-Xylene, m-Xylene, p-Xylene, and Mesitylene with Anisole at (288.15, 293.15, 298.15, and 303.15) K
dvisc	0.0007560	Pa×s	298.15	Viscosities, Densities, and Speeds of Sound of Binary Mixtures of Benzene, Toluene, o-Xylene, m-Xylene, p-Xylene, and Mesitylene with Anisole at (288.15, 293.15, 298.15, and 303.15) K
dvisc	0.0008100	Pa×s	293.15	Viscosities, Densities, and Speeds of Sound of Binary Mixtures of Benzene, Toluene, o-Xylene, m-Xylene, p-Xylene, and Mesitylene with Anisole at (288.15, 293.15, 298.15, and 303.15) K
dvisc	0.0006690	Pa×s	308.15	Ultrasonic and viscometric study of molecular interactions in binary mixtures of aniline with 1-propanol, 2-propanol, 2-methyl-1-propanol, and 2-methyl-2-propanol at different temperatures

dvisc	0.0007576	Pa×s	298.15	Ultrasonic and viscometric study of molecular interactions in binary mixtures of aniline with 1-propanol, 2-propanol, 2-methyl-1-propanol, and 2-methyl-2-propanol at different temperatures
dvisc	0.0008710	Pa×s	288.15	Viscosities, Densities, and Speeds of Sound of Binary Mixtures of Benzene, Toluene, o-Xylene, m-Xylene, p-Xylene, and Mesitylene with Anisole at (288.15, 293.15, 298.15, and 303.15) K
dvisc	0.0006950	Pa×s	303.15	Viscosity, Density, and Refractive Index of Some (Ester + Hydrocarbon) Binary Mixtures at 303.15 K and 313.15 K
hfust	13.60	kJ/mol	247.80	NIST Webbook
hfust	13.60	kJ/mol	247.82	NIST Webbook
hfust	13.60	kJ/mol	247.80	NIST Webbook
hsubt	60.10	kJ/mol	248.00	NIST Webbook
hvapt	36.24	kJ/mol	417.60	NIST Webbook
hvapt	41.10	kJ/mol	376.00	NIST Webbook
hvapt	36.70	kJ/mol	521.00	NIST Webbook
hvapt	43.07	kJ/mol	298.00	Enthalpies of Vaporization and Vapor Pressures of Some Deuterated Hydrocarbons. Liquid-Vapor Pressure Isotope Effects
hvapt	39.80	kJ/mol	401.00	NIST Webbook
hvapt	40.80	kJ/mol	378.00	NIST Webbook
hvapt	45.00	kJ/mol	298.00	NIST Webbook
hvapt	38.00	kJ/mol	444.50	NIST Webbook
hvapt	36.82	kJ/mol	417.50	KDB
hvapt	36.70	kJ/mol	598.50	NIST Webbook

pvap	20.00	kPa	365.15	Vapour-liquid equilibrium for tripropylene glycol + aromatic hydrocarbons binary systems: Experimental data and regression	
pvap	8.54	kPa	343.15	Vapor-liquid equilibrium for the binary mixtures of dipropylene glycol with aromatic hydrocarbons: Experimental and regression	
pvap	12.73	kPa	353.15	Vapor-liquid equilibrium for the binary mixtures of dipropylene glycol with aromatic hydrocarbons: Experimental and regression	
pvap	18.65	kPa	363.15	Vapor-liquid equilibrium for the binary mixtures of dipropylene glycol with aromatic hydrocarbons: Experimental and regression	
pvap	26.73	kPa	373.15	Vapor-liquid equilibrium for the binary mixtures of dipropylene glycol with aromatic hydrocarbons: Experimental and regression	
pvap	31.66	kPa	378.15	Vapor-liquid equilibrium for the binary mixtures of dipropylene glycol with aromatic hydrocarbons: Experimental and regression	

pvap	37.35	kPa	383.15	Vapor-liquid equilibrium for the binary mixtures of dipropylene glycol with aromatic hydrocarbons: Experimental and regression	
pvap	43.63	kPa	388.15	Vapor-liquid equilibrium for the binary mixtures of dipropylene glycol with aromatic hydrocarbons: Experimental and regression	
pvap	51.01	kPa	393.15	Vapor-liquid equilibrium for the binary mixtures of dipropylene glycol with aromatic hydrocarbons: Experimental and regression	
pvap	68.42	kPa	403.15	Vapor-liquid equilibrium for the binary mixtures of dipropylene glycol with aromatic hydrocarbons: Experimental and regression	
pvap	90.18	kPa	413.15	Vapor-liquid equilibrium for the binary mixtures of dipropylene glycol with aromatic hydrocarbons: Experimental and regression	
pvap	9.18	kPa	345.15	Vapour-liquid equilibrium for tripropylene glycol + aromatic hydrocarbons binary systems: Experimental data and regression	

pvap	11.27	kPa	350.15	Vapour-liquid equilibrium for tripropylene glycol + aromatic hydrocarbons binary systems: Experimental data and regression
pvap	13.73	kPa	355.15	Vapour-liquid equilibrium for tripropylene glycol + aromatic hydrocarbons binary systems: Experimental data and regression
pvap	16.62	kPa	360.15	Vapour-liquid equilibrium for tripropylene glycol + aromatic hydrocarbons binary systems: Experimental data and regression
pvap	5.61	kPa	333.15	Vapor-liquid equilibrium for the binary mixtures of dipropylene glycol with aromatic hydrocarbons: Experimental and regression
pvap	0.88	kPa	298.15	(Vapour + liquid) equilibria of (1-butanol + benzene, or toluene, or o-, or m-, or p-xylene) at T = 308.15 K
pvap	14.75	kPa	357.30	Extension of the DSC method to measuring vapor pressures of narrow boiling range oil cuts
pvap	29.61	kPa	376.70	Extension of the DSC method to measuring vapor pressures of narrow boiling range oil cuts
pvap	49.44	kPa	392.70	Extension of the DSC method to measuring vapor pressures of narrow boiling range oil cuts

pvap	64.27	kPa	401.50	Extension of the DSC method to measuring vapor pressures of narrow boiling range oil cuts
pvap	102.78	kPa	418.60	Extension of the DSC method to measuring vapor pressures of narrow boiling range oil cuts
pvap	93.13	kPa	414.41	Refractive Index and Vapor-Liquid Equilibrium Data for the Binary Systems of Anisole with Xylene Isomers at 93.13 kPa
pvap	101.30	kPa	417.43	Measurement and Correlation of Vapor-Liquid Equilibrium for Binary Systems of Dimethyl Carbonate with Butyl Butyrate, o-Xylene, and Cyclohexanone at 101.3 kPa
pvap	3.60	kPa	323.15	Vapor-Liquid Equilibrium Data, Excess Enthalpy Data, and Azeotropic Data for the Binary System Dibutyl Ether + o-Xylene
pvap	50.60	kPa	393.04	Vapor-Liquid Equilibrium Data, Excess Enthalpy Data, and Azeotropic Data for the Binary System Dibutyl Ether + o-Xylene
pvap	90.39	kPa	413.15	Vapor-Liquid Equilibrium Data, Excess Enthalpy Data, and Azeotropic Data for the Binary System Dibutyl Ether + o-Xylene

pvap	250.00	kPa	456.10	Isobaric Vapor Liquid Equilibrium for Binary Systems of 2,2,4-Trimethylpentane with o-Xylene, m-Xylene, p-Xylene, and Ethylbenzene at 250 kPa
pvap	12.80	kPa	353.15	Vapor liquid equilibria and density measurement for binary mixtures of toluene, benzene, o-xylene, m-xylene, sulfolane and nonane at 333.15K and 353.15K
pvap	5.32	kPa	333.15	Vapor liquid equilibria and density measurement for binary mixtures of toluene, benzene, o-xylene, m-xylene, sulfolane and nonane at 333.15K and 353.15K
pvap	50.43	kPa	392.87	Vapor liquid equilibrium for the binary systems tetrahydrothiophene + toluene and tetrahydrothiophene + o-xylene at 368.15 K and 383.15 K
pvap	5.44	kPa	333.15	Vapor liquid equilibria and density measurement for binary mixtures of toluene, benzene, o-xylene, m-xylene, sulfolane and nonane at 333.15K and 353.15K

pvap	2.05	kPa	313.15	Vapor-liquid equilibrium for the binary mixtures of dipropylene glycol with aromatic hydrocarbons: Experimental and regression
pvap	12.71	kPa	353.15	Vapor liquid equilibria and density measurement for binary mixtures of o-xylene + NMF, m-xylene +NMF and p-xylene +NMF at 333.15 K, 343.15 K and 353.15 K from 0 kPa to 101.3 kPa
pvap	8.47	kPa	343.15	Vapor liquid equilibria and density measurement for binary mixtures of o-xylene + NMF, m-xylene +NMF and p-xylene +NMF at 333.15 K, 343.15 K and 353.15 K from 0 kPa to 101.3 kPa
pvap	5.45	kPa	333.15	Vapor liquid equilibria and density measurement for binary mixtures of o-xylene + NMF, m-xylene +NMF and p-xylene +NMF at 333.15 K, 343.15 K and 353.15 K from 0 kPa to 101.3 kPa
pvap	101.85	kPa	417.28	Vapor liquid equilibrium for the binary systems tetrahydrothiophene + toluene and tetrahydrothiophene + o-xylene at 368.15 K and 383.15 K

pvap	90.54	kPa	413.06	Vapor liquid equilibrium for the binary systems tetrahydrothiophene + toluene and tetrahydrothiophene + o-xylene at 368.15 K and 383.15 K
pvap	80.41	kPa	408.83	Vapor liquid equilibrium for the binary systems tetrahydrothiophene + toluene and tetrahydrothiophene + o-xylene at 368.15 K and 383.15 K
pvap	70.27	kPa	404.09	Vapor liquid equilibrium for the binary systems tetrahydrothiophene + toluene and tetrahydrothiophene + o-xylene at 368.15 K and 383.15 K
pvap	60.03	kPa	398.66	Vapor liquid equilibrium for the binary systems tetrahydrothiophene + toluene and tetrahydrothiophene + o-xylene at 368.15 K and 383.15 K
pvap	12.66	kPa	353.15	Vapor liquid equilibria and density measurement for binary mixtures of toluene, benzene, o-xylene, m-xylene, sulfolane and nonane at 333.15K and 353.15K
pvap	40.20	kPa	385.55	Vapor liquid equilibrium for the binary systems tetrahydrothiophene + toluene and tetrahydrothiophene + o-xylene at 368.15 K and 383.15 K

pvap	30.14	kPa	376.75	Vapor liquid equilibrium for the binary systems tetrahydrothiophene + toluene and tetrahydrothiophene + o-xylene at 368.15 K and 383.15 K
pvap	20.40	kPa	365.49	Vapor liquid equilibrium for the binary systems tetrahydrothiophene + toluene and tetrahydrothiophene + o-xylene at 368.15 K and 383.15 K
pvap	3.46	kPa	323.15	Vapor-liquid equilibrium for the binary mixtures of dipropylene glycol with aromatic hydrocarbons: Experimental and regression
rfi	1.50570		298.15	A study of densities and volumetric properties of binary mixtures of N-methyl-2-pyrrolidone with xylene at different temperatures and atmospheric pressure
rfi	1.50262		298.15	Density, Speed of Sound, and Refractive Index for Binary Mixtures Containing Cycloalkanes with o-Xylene, m-Xylene, p-Xylene, and Mesitylene at T = (298.15 and 313.15) K
rfi	1.50550		293.15	Solubilities of Methyldiphenylphosphine Oxide in Selected Solvents

rfi	1.49210	318.15	Densities, Refractive Indices, and Excess Properties of Binary Mixtures of 1,4-Dioxane with Benzene, Toluene, o-Xylene, m-Xylene, p-Xylene, and Mesitylene at Temperatures from (288.15 to 318.15) K
rfi	1.49480	313.15	Densities, Refractive Indices, and Excess Properties of Binary Mixtures of 1,4-Dioxane with Benzene, Toluene, o-Xylene, m-Xylene, p-Xylene, and Mesitylene at Temperatures from (288.15 to 318.15) K
rfi	1.49750	308.15	Densities, Refractive Indices, and Excess Properties of Binary Mixtures of 1,4-Dioxane with Benzene, Toluene, o-Xylene, m-Xylene, p-Xylene, and Mesitylene at Temperatures from (288.15 to 318.15) K
rfi	1.50020	303.15	Densities, Refractive Indices, and Excess Properties of Binary Mixtures of 1,4-Dioxane with Benzene, Toluene, o-Xylene, m-Xylene, p-Xylene, and Mesitylene at Temperatures from (288.15 to 318.15) K

rfi	1.50290	298.15	Densities, Refractive Indices, and Excess Properties of Binary Mixtures of 1,4-Dioxane with Benzene, Toluene, o-Xylene, m-Xylene, p-Xylene, and Mesitylene at Temperatures from (288.15 to 318.15) K
rfi	1.50550	293.15	Densities, Refractive Indices, and Excess Properties of Binary Mixtures of 1,4-Dioxane with Benzene, Toluene, o-Xylene, m-Xylene, p-Xylene, and Mesitylene at Temperatures from (288.15 to 318.15) K
rfi	1.50830	288.15	Densities, Refractive Indices, and Excess Properties of Binary Mixtures of 1,4-Dioxane with Benzene, Toluene, o-Xylene, m-Xylene, p-Xylene, and Mesitylene at Temperatures from (288.15 to 318.15) K
rfi	1.49210	318.15	Refractive Indices of Binary Mixtures of Tetrahydrofuran with Aromatic Hydrocarbon at Temperatures from (288.15 to 318.15) K

rfi	1.49480	313.15	Refractive Indices of Binary Mixtures of Tetrahydrofuran with Aromatic Hydrocarbon at Temperatures from (288.15 to 318.15) K
rfi	1.49750	308.15	Refractive Indices of Binary Mixtures of Tetrahydrofuran with Aromatic Hydrocarbon at Temperatures from (288.15 to 318.15) K
rfi	1.50020	303.15	Refractive Indices of Binary Mixtures of Tetrahydrofuran with Aromatic Hydrocarbon at Temperatures from (288.15 to 318.15) K
rfi	1.50290	298.15	Refractive Indices of Binary Mixtures of Tetrahydrofuran with Aromatic Hydrocarbon at Temperatures from (288.15 to 318.15) K
rfi	1.50550	293.15	Refractive Indices of Binary Mixtures of Tetrahydrofuran with Aromatic Hydrocarbon at Temperatures from (288.15 to 318.15) K
rfi	1.50830	288.15	Refractive Indices of Binary Mixtures of Tetrahydrofuran with Aromatic Hydrocarbon at Temperatures from (288.15 to 318.15) K

rfi	1.50240	298.15	Densities, Excess Molar Volumes, Viscosity, and Refractive Indices of Binary Mixtures of Ethanoic Acid and Trichloroethylene with Dimethylbenzenes at Different Temperatures
rfi	1.50260	298.00	Vapor-Liquid Equilibrium for Dimethyl Disulfide + Butane, + trans-But-2-ene, + 2-Methylpropane, + 2-Methylpropene, + Ethanol, and 2-Ethoxy-2-methylpropane
rfi	1.50260	298.15	Vapor-Liquid Equilibrium for Binary System of 1-Propanethiol, Thiophene, and Diethyl Sulfide with Toluene at 90.03 kPa
rfi	1.50200	298.15	Isobaric Vapor-Liquid Equilibria for the Binary Mixtures of Styrene with Ethylbenzene, o-Xylene, m-Xylene, and p-Xylene
rfi	1.50180	298.15	Liquid-liquid equilibria for mixtures of (Furfural + an Aromatic hydrocarbon + an alkane) at T=298.15 K
rfi	1.50150	293.15	Volumetric properties of binary mixtures of tributylamine with benzene derivatives and comparison with ERAS model results at temperatures from (293.15 to 333.15) K

rfi	1.48580	293.15	Activity coefficients and excess Gibbs free energy of some binary mixtures formed by p-cresol at 95.23 kPa
rfi	1.49466	313.15	Density, Speed of Sound, and Refractive Index for Binary Mixtures Containing Cycloalkanes with o-Xylene, m-Xylene, p-Xylene, and Mesitylene at T = (298.15 and 313.15) K
rfi	1.50570	298.15	Densities and volumetric properties of binary mixtures of xylene with N,N-dimethylformamide at different temperatures
rfi	1.50000	303.15	Excess molar volumes and refractive indices of (methoxybenzene + benzene, or toluene, or o-xylene, or m-xylene, or p-xylene, or mesitylene) binary mixtures between T = (288.15 to 303.15) K
rfi	1.50180	298.15	Excess molar volumes and refractive indices of (methoxybenzene + benzene, or toluene, or o-xylene, or m-xylene, or p-xylene, or mesitylene) binary mixtures between T = (288.15 to 303.15) K

rfi	1.50470	293.15	Excess molar volumes and refractive indices of (methoxybenzene + benzene, or toluene, or o-xylene, or m-xylene, or p-xylene, or mesitylene) binary mixtures between T = (288.15 to 303.15) K
rfi	1.50720	288.15	Excess molar volumes and refractive indices of (methoxybenzene + benzene, or toluene, or o-xylene, or m-xylene, or p-xylene, or mesitylene) binary mixtures between T = (288.15 to 303.15) K
rfi	1.50573	293.15	A study of densities and volumetric properties of binary mixtures containing nitrobenzene at T = (293.15 to 353.15) K
rfi	1.50570	293.15	Densities and volumetric properties of a (xylene + dimethyl sulfoxide) at temperature from (293.15 to 353.15) K
rfi	1.50570	293.10	Volumetric properties of (cyclohexanone + a xylene) at temperature between (293.15 and 353.15) K
rfi	1.50280	298.15	Phase equilibria of binary systems of 3-methylthiophene with four different hydrocarbons

rfi	1.50280		298.15	Phase equilibria on four binary systems containing 3-methylthiophene
rfi	1.50550		293.15	Excess Gibbs' energies of the binary mixtures formed by N,N-dimethylformamide with xylenes and cresols at 95.1 kPa
rfi	1.50550		293.15	Bubble points of some binary mixtures formed by o-cresol at 95.75 kPa
rfi	1.50310		308.15	Topological and thermodynamic investigations of molecular interactions in binary mixtures: Molar excess volumes and molar excess enthalpies
rfi	1.50300		298.15	Bubble temperature measurements on the binary mixtures formed by decane with a variety of compounds at 95.8 kPa
rfi	1.50295		298.15	KDB
rhol	875.92	kg/m3	298.15	Excess Molar Volumes and Surface Tensions of Xylene with Isopropyl Ether or Methyl tert-Butyl Ether at 298.15 K
rhol	875.99	kg/m3	298.15	Molar Excess Volumes and Excess Isentropic Compressibilities of Ternary Mixtures of o-Toluidine
rhol	867.48	kg/m3	308.15	Thermodynamic Properties of Ternary Liquid Mixtures Containing o-Chlorotoluene: Excess Molar Volumes and Excess Isentropic Compressibilities

rhol	871.70	kg/m3	303.15	Thermodynamic Properties of Ternary Liquid Mixtures Containing o-Chlorotoluene: Excess Molar Volumes and Excess Isentropic Compressibilities
rhol	875.91	kg/m3	298.15	Thermodynamic Properties of Ternary Liquid Mixtures Containing o-Chlorotoluene: Excess Molar Volumes and Excess Isentropic Compressibilities
rhol	875.81	kg/m3	298.15	Vapor Liquid Equilibrium for 2-Methyl-1-butanol + Ethylbenzene + Xylene Isomers at 101.33 kPa
rhol	875.50	kg/m3	298.20	Isobaric Vapor Liquid Equilibrium of Binary Systems of Hexane or Octane with 1,2-Dimethylbenzene or 1,3-Dimethylbenzene at 101.3 kPa
rhol	875.52	kg/m3	298.15	Evaluation of the Performance of Four Solvents for the Liquid Liquid Extraction of Acrylic Acid from Water
rhol	879.68	kg/m3	293.15	Isobaric vapor liquid equilibium for the binary systerms of 1-butanol with o-xylene, m-xylene, p-xylene, and ethylbenzene at 101.33 kPa
rhol	875.72	kg/m3	298.15	Excess Molar Volumes of 2,4,6,8-Tetramethylcyclotetrasiloxane with Benzene, Toluene, and Xylene at T = (288.15, 298.15, and 308.15) K

rhol	875.90	kg/m3	298.15	Molar Excess Volumes and Excess Isentropic Compressibilities of {2-Methylaniline (i) + Benzene (j) + Methylbenzene}, {2-Methylaniline (i) + Benzene (j) + 1,2-Dimethylbenzene (k)}, and {2-Methylaniline (i) + Benzene (j) + 1,4-Dimethylbenzene (k)} at T = 308.15 K
rhol	875.92	kg/m3	298.15	Excess Molar Volumes and Surface Tensions of Xylene with Acetone or 2-Butanone at 298.15 K
rhol	875.00	kg/m3	298.15	Excess Molar Enthalpies for Dimethyl Carbonate with o-Xylene, m-Xylene, p-Xylene, Ethylbenzene or Ethyl Benzoate at 298.15 K and 10.2 MPa
rhol	875.00	kg/m3	298.15	Excess Molar Entalpies of Dimethyl Carbonate with o-Xylene, m-Xylene, p-Xylene, Ethylbenzene, or Ethyl Benzoate at 298.15 K
rhol	875.60	kg/m3	298.15	Volumetric Properties of the D2EHPA-o-Xylene-Neodymium (Samarium, Europium, Gadolinium, Terbium, Dysprosium) Di(2-ethylhexyl)phosphate Systems at 298.15 K
rhol	880.00	kg/m3	293.00	KDB

rhol	874.89	kg/m3	298.15	Experimental Study of the Dynamic Viscosity Deviations in the Binary Systems: Hexane + Ethylbenzene, + o-Xylene, + m-Xylene, + p-Xylene at 298.15 K	
rhol	875.99	kg/m3	298.15	Thermodynamic Properties of Ternary Liquid Mixtures of 2-Pyrrolidinone with Aromatic Hydrocarbons	
rhol	884.09	kg/m3	288.15	Densities and Volumetric Properties of Binary Mixtures of Butyl Acrylate with Benzene, Toluene, o-Xylene, m-Xylene, p-Xylene, and Mesitylene at Temperatures from 288.15 K to 318.15 K	
rhol	879.83	kg/m3	293.15	Densities and Volumetric Properties of Binary Mixtures of Butyl Acrylate with Benzene, Toluene, o-Xylene, m-Xylene, p-Xylene, and Mesitylene at Temperatures from 288.15 K to 318.15 K	
rhol	875.57	kg/m3	298.15	Densities and Volumetric Properties of Binary Mixtures of Butyl Acrylate with Benzene, Toluene, o-Xylene, m-Xylene, p-Xylene, and Mesitylene at Temperatures from 288.15 K to 318.15 K	

rhol	871.31	kg/m3	303.15	Densities and Volumetric Properties of Binary Mixtures of Butyl Acrylate with Benzene, Toluene, o-Xylene, m-Xylene, p-Xylene, and Mesitylene at Temperatures from 288.15 K to 318.15 K	
rhol	867.05	kg/m3	308.15	Densities and Volumetric Properties of Binary Mixtures of Butyl Acrylate with Benzene, Toluene, o-Xylene, m-Xylene, p-Xylene, and Mesitylene at Temperatures from 288.15 K to 318.15 K	
rhol	862.79	kg/m3	313.15	Densities and Volumetric Properties of Binary Mixtures of Butyl Acrylate with Benzene, Toluene, o-Xylene, m-Xylene, p-Xylene, and Mesitylene at Temperatures from 288.15 K to 318.15 K	
rhol	858.53	kg/m3	318.15	Densities and Volumetric Properties of Binary Mixtures of Butyl Acrylate with Benzene, Toluene, o-Xylene, m-Xylene, p-Xylene, and Mesitylene at Temperatures from 288.15 K to 318.15 K	

rhol	875.90	kg/m3	298.15	Bubble point measurements of binary mixtures formed by 1-hexanol with selected nitro-compounds and substituted benzenes at 95.6 kPa
rhol	859.54	kg/m3	298.15	Isobaric vapor-liquid equilibrium of binary systems of decane with p-, o-, m-xylene at 20 kPa
rhol	859.54	kg/m3	298.15	Isobaric vapor-liquid equilibrium data of the binary systems of octane with p, o, m-xylene at 20 kPa
rhol	875.50	kg/m3	298.15	Isobaric vapor-liquid equilibrium for n-undecane + p-, o-, m-xylene at 10 kPa
rhol	875.91	kg/m3	298.15	Heat capacities of binary and ternary mixtures containing o-chlorotoluene, cyclic ether and aromatic hydrocarbons
rhol	871.70	kg/m3	303.15	Heat capacities of binary and ternary mixtures containing o-chlorotoluene, cyclic ether and aromatic hydrocarbons
rhol	867.48	kg/m3	308.15	Heat capacities of binary and ternary mixtures containing o-chlorotoluene, cyclic ether and aromatic hydrocarbons

rhol	878.60	kg/m3	293.15	Excess volumes and partial molar volumes of binary mixtures of 1,2-propanediol carbonate with xylene in the temperature range of (293.15 to 353.15) K
rhol	872.25	kg/m3	303.15	Excess volumes and partial molar volumes of binary mixtures of 1,2-propanediol carbonate with xylene in the temperature range of (293.15 to 353.15) K
rhol	859.67	kg/m3	313.15	Excess volumes and partial molar volumes of binary mixtures of 1,2-propanediol carbonate with xylene in the temperature range of (293.15 to 353.15) K
rhol	840.84	kg/m3	323.15	Excess volumes and partial molar volumes of binary mixtures of 1,2-propanediol carbonate with xylene in the temperature range of (293.15 to 353.15) K
rhol	815.74	kg/m3	333.15	Excess volumes and partial molar volumes of binary mixtures of 1,2-propanediol carbonate with xylene in the temperature range of (293.15 to 353.15) K
rhol	784.38	kg/m3	343.15	Excess volumes and partial molar volumes of binary mixtures of 1,2-propanediol carbonate with xylene in the temperature range of (293.15 to 353.15) K

rhol	746.76	kg/m3	353.15	Excess volumes and partial molar volumes of binary mixtures of 1,2-propanediol carbonate with xylene in the temperature range of (293.15 to 353.15) K
rhol	854.30	kg/m3	323.15	Densities and Dynamic Viscosities of Alicyclic Cyclohexane with Toluene, o-Xylene, and Mesitylene at T = (303.15 to 323.15) K and Atmospheric Pressure
rhol	867.30	kg/m3	308.15	Effect of temperature and composition on the density, refractive index, and excess quantities of binary mixtures of 2,4,6,8-tetramethyl-2,4,6,8-tetraethenylcyclotetrasiloxane with aromatic hydrocarbons
rhol	858.81	kg/m3	318.15	Effect of temperature and composition on the density, refractive index, and excess quantities of binary mixtures of 2,4,6,8-tetramethyl-2,4,6,8-tetraethenylcyclotetrasiloxane with aromatic hydrocarbons
rhol	850.24	kg/m3	328.15	Effect of temperature and composition on the density, refractive index, and excess quantities of binary mixtures of 2,4,6,8-tetramethyl-2,4,6,8-tetraethenylcyclotetrasiloxane with aromatic hydrocarbons

rhol	875.67	kg/m3	298.15	Effect of temperature and composition on the density, refractive index, and excess quantities of binary mixtures of 2,4,6,8-tetramethyl-2,4,6,8- tetraethenylcyclotetrasiloxane with aromatic hydrocarbons
rhol	875.36	kg/m3	298.15	Acoustic and thermodynamic properties of binary mixtures of 1-nonanol with o-xylene, m-xylene, p-xylene, ethylbenzene and mesitylene at T = (298.15 and 308.15) K
rhol	866.51	kg/m3	308.15	Acoustic and thermodynamic properties of binary mixtures of 1-nonanol with o-xylene, m-xylene, p-xylene, ethylbenzene and mesitylene at T = (298.15 and 308.15) K
rhol	883.91	kg/m3	288.15	Thermodynamic characterization of binary mixtures of poly(propylene glycol) 425 with toluene and o-, m- and p-xylenes
rhol	879.72	kg/m3	293.15	Thermodynamic characterization of binary mixtures of poly(propylene glycol) 425 with toluene and o-, m- and p-xylenes
rhol	875.51	kg/m3	298.15	Thermodynamic characterization of binary mixtures of poly(propylene glycol) 425 with toluene and o-, m- and p-xylenes

rhol	871.30	kg/m3	303.15	Thermodynamic characterization of binary mixtures of poly(propylene glycol) 425 with toluene and o-, m- and p-xylenes	
rhol	867.07	kg/m3	308.15	Thermodynamic characterization of binary mixtures of poly(propylene glycol) 425 with toluene and o-, m- and p-xylenes	
rhol	862.83	kg/m3	313.15	Thermodynamic characterization of binary mixtures of poly(propylene glycol) 425 with toluene and o-, m- and p-xylenes	
rhol	858.57	kg/m3	318.15	Thermodynamic characterization of binary mixtures of poly(propylene glycol) 425 with toluene and o-, m- and p-xylenes	
rhol	854.30	kg/m3	323.15	Thermodynamic characterization of binary mixtures of poly(propylene glycol) 425 with toluene and o-, m- and p-xylenes	
rhol	850.01	kg/m3	328.15	Thermodynamic characterization of binary mixtures of poly(propylene glycol) 425 with toluene and o-, m- and p-xylenes	
rhol	845.71	kg/m3	333.15	Thermodynamic characterization of binary mixtures of poly(propylene glycol) 425 with toluene and o-, m- and p-xylenes	

rhol	875.81	kg/m3	298.15	Isobaric Vapor Liquid Equilibrium for the Binary Systems of Diethyl Carbonate with Xylene Isomers and Ethylbenzene at 101.33 kPa	
rhol	871.50	kg/m3	303.15	Densities and Dynamic Viscosities of Alicyclic Cyclohexane with Toluene, o-Xylene, and Mesitylene at T = (303.15 to 323.15) K and Atmospheric Pressure	
rhol	867.20	kg/m3	308.15	Densities and Dynamic Viscosities of Alicyclic Cyclohexane with Toluene, o-Xylene, and Mesitylene at T = (303.15 to 323.15) K and Atmospheric Pressure	
rhol	862.80	kg/m3	313.15	Densities and Dynamic Viscosities of Alicyclic Cyclohexane with Toluene, o-Xylene, and Mesitylene at T = (303.15 to 323.15) K and Atmospheric Pressure	
rhol	858.80	kg/m3	318.15	Densities and Dynamic Viscosities of Alicyclic Cyclohexane with Toluene, o-Xylene, and Mesitylene at T = (303.15 to 323.15) K and Atmospheric Pressure	

rhol	884.07	kg/m3	288.15	Effect of temperature and composition on the density, refractive index, and excess quantities of binary mixtures of 2,4,6,8-tetramethyl-2,4,6,8- tetraethenylcyclotetrasiloxane with aromatic hydrocarbons
sfust	54.87	J/mol×K	247.82	NIST Webbook
speedsl	1347.50	m/s	298.15	Physicochemical study of intermolecular interactions in 1,4-dioxane + aromatic hydrocarbons binary mixtures at different temperatures by using ultrasonic and viscometric methods
speedsl	1331.21	m/s	300.65	Influence of temperature on thermodynamics of ethers + xylenes
speedsl	1341.51	m/s	298.15	Influence of temperature on thermodynamics of ethers + xylenes
speedsl	1280.61	m/s	313.15	Influence of temperature on thermodynamics of ethers + xylenes
speedsl	1362.16	m/s	293.15	Influence of temperature on thermodynamics of ethers + xylenes
speedsl	1371.75	m/s	290.65	Influence of temperature on thermodynamics of ethers + xylenes
speedsl	1381.29	m/s	288.15	Influence of temperature on thermodynamics of ethers + xylenes

speedsl	1346.00	m/s	298.15	Isentropic Compressibilities Changes of Mixing of Tetrahydropyran and Aromatic Hydrocarbons Ternary Mixtures at 308.15 K	
speedsl	1270.55	m/s	315.65	Influence of temperature on thermodynamics of ethers + xylenes	
speedsl	1260.62	m/s	318.15	Influence of temperature on thermodynamics of ethers + xylenes	
speedsl	1300.66	m/s	308.15	Influence of temperature on thermodynamics of ethers + xylenes	
speedsl	1250.66	m/s	320.65	Influence of temperature on thermodynamics of ethers + xylenes	
speedsl	1240.87	m/s	323.15	Influence of temperature on thermodynamics of ethers + xylenes	
speedsl	1367.70	m/s	293.15	Physicochemical study of intermolecular interactions in 1,4-dioxane + aromatic hydrocarbons binary mixtures at different temperatures by using ultrasonic and viscometric methods	
speedsl	1320.96	m/s	303.15	Influence of temperature on thermodynamics of ethers + xylenes	

speedsl	1289.00	m/s	313.15	Densities, Speeds of Sound, and Isentropic Compressibilities of Binary Mixtures of {Alkan-1-ols + 1,2-Dimethylbenzene, or 1,3-Dimethylbenzene, or 1,4-Dimethylbenzene, or Ethylbenzene} at (293.15, 303.15, and 313.15) K
speedsl	1328.00	m/s	303.15	Densities, Speeds of Sound, and Isentropic Compressibilities of Binary Mixtures of {Alkan-1-ols + 1,2-Dimethylbenzene, or 1,3-Dimethylbenzene, or 1,4-Dimethylbenzene, or Ethylbenzene} at (293.15, 303.15, and 313.15) K
speedsl	1369.00	m/s	293.15	Densities, Speeds of Sound, and Isentropic Compressibilities of Binary Mixtures of {Alkan-1-ols + 1,2-Dimethylbenzene, or 1,3-Dimethylbenzene, or 1,4-Dimethylbenzene, or Ethylbenzene} at (293.15, 303.15, and 313.15) K
speedsl	1285.20	m/s	318.15	Physicochemical study of intermolecular interactions in 1,4-dioxane + aromatic hydrocarbons binary mixtures at different temperatures by using ultrasonic and viscometric methods

speedsl	1298.50	m/s	313.15	Physicochemical study of intermolecular interactions in 1,4-dioxane + aromatic hydrocarbons binary mixtures at different temperatures by using ultrasonic and viscometric methods	
speedsl	1351.83	m/s	295.65	Influence of temperature on thermodynamics of ethers + xylenes	
speedsl	1313.30	m/s	308.15	Physicochemical study of intermolecular interactions in 1,4-dioxane + aromatic hydrocarbons binary mixtures at different temperatures by using ultrasonic and viscometric methods	
speedsl	1329.40	m/s	303.15	Physicochemical study of intermolecular interactions in 1,4-dioxane + aromatic hydrocarbons binary mixtures at different temperatures by using ultrasonic and viscometric methods	
speedsl	1290.59	m/s	310.65	Influence of temperature on thermodynamics of ethers + xylenes	
speedsl	1310.79	m/s	305.65	Influence of temperature on thermodynamics of ethers + xylenes	
srf	0.03	N/m	313.15	Surface Tension of o-Xylene + Acetic Acid and m-Xylene + Acetic Acid Binary Mixtures from 303.15 K to 343.15 K	

srf	0.03	N/m	298.15	Excess thermodynamic functions derived from densities and surface tensions of (p- or o-xylene + ethylene glycol dimethyl ether) between the temperatures (298.15 and 308.15) K
srf	0.03	N/m	303.15	Excess thermodynamic functions derived from densities and surface tensions of (p- or o-xylene + ethylene glycol dimethyl ether) between the temperatures (298.15 and 308.15) K
srf	0.03	N/m	308.15	Excess thermodynamic functions derived from densities and surface tensions of (p- or o-xylene + ethylene glycol dimethyl ether) between the temperatures (298.15 and 308.15) K
srf	0.03	N/m	303.15	Surface Tension of o-Xylene + Acetic Acid and m-Xylene + Acetic Acid Binary Mixtures from 303.15 K to 343.15 K
srf	0.03	N/m	308.15	Surface Tension of o-Xylene + Acetic Acid and m-Xylene + Acetic Acid Binary Mixtures from 303.15 K to 343.15 K
srf	0.03	N/m	298.15	Experimental and theoretical surface tension deviations in the binary systems propyl propanoate + o-, m- and p-xylene at 298.15K

srf	0.03	N/m	318.15	Surface Tension of o-Xylene + Acetic Acid and m-Xylene + Acetic Acid Binary Mixtures from 303.15 K to 343.15 K	
srf	0.03	N/m	323.15	Surface Tension of o-Xylene + Acetic Acid and m-Xylene + Acetic Acid Binary Mixtures from 303.15 K to 343.15 K	
srf	0.03	N/m	333.15	Surface Tension of o-Xylene + Acetic Acid and m-Xylene + Acetic Acid Binary Mixtures from 303.15 K to 343.15 K	
srf	0.02	N/m	343.15	Surface Tension of o-Xylene + Acetic Acid and m-Xylene + Acetic Acid Binary Mixtures from 303.15 K to 343.15 K	
srf	0.03	N/m	298.15	Densities and Surface Tensions of Propyl Acetate + Xylenes or + Ethylbenzene from (298.15 to 308.15) K	
srf	0.03	N/m	303.15	Densities and Surface Tensions of Propyl Acetate + Xylenes or + Ethylbenzene from (298.15 to 308.15) K	
srf	0.03	N/m	293.20	KDB	
srf	0.03	N/m	308.15	Densities and Surface Tensions of Propyl Acetate + Xylenes or + Ethylbenzene from (298.15 to 308.15) K	

tcondl	0.14	W/m×K	258.10	Thermal Conductivity and Thermal Diffusivity of Twenty-Nine Liquids: Alkenes, Cyclic (Alkanes, Alkenes, Alkadienes, Aromatics), and Deuterated Hydrocarbons
tcondl	0.14	W/m×K	257.75	Thermal Conductivity and Thermal Diffusivity of Twenty-Nine Liquids: Alkenes, Cyclic (Alkanes, Alkenes, Alkadienes, Aromatics), and Deuterated Hydrocarbons
tcondl	0.14	W/m×K	257.96	Thermal Conductivity and Thermal Diffusivity of Twenty-Nine Liquids: Alkenes, Cyclic (Alkanes, Alkenes, Alkadienes, Aromatics), and Deuterated Hydrocarbons
tcondl	0.13	W/m×K	277.07	Thermal Conductivity and Thermal Diffusivity of Twenty-Nine Liquids: Alkenes, Cyclic (Alkanes, Alkenes, Alkadienes, Aromatics), and Deuterated Hydrocarbons
tcondl	0.13	W/m×K	277.27	Thermal Conductivity and Thermal Diffusivity of Twenty-Nine Liquids: Alkenes, Cyclic (Alkanes, Alkenes, Alkadienes, Aromatics), and Deuterated Hydrocarbons

tcondl	0.13	W/m×K	277.42	Thermal Conductivity and Thermal Diffusivity of Twenty-Nine Liquids: Alkenes, Cyclic (Alkanes, Alkenes, Alkadienes, Aromatics), and Deuterated Hydrocarbons	
tcondl	0.13	W/m×K	295.56	Thermal Conductivity and Thermal Diffusivity of Twenty-Nine Liquids: Alkenes, Cyclic (Alkanes, Alkenes, Alkadienes, Aromatics), and Deuterated Hydrocarbons	
tcondl	0.13	W/m×K	295.78	Thermal Conductivity and Thermal Diffusivity of Twenty-Nine Liquids: Alkenes, Cyclic (Alkanes, Alkenes, Alkadienes, Aromatics), and Deuterated Hydrocarbons	
tcondl	0.13	W/m×K	295.91	Thermal Conductivity and Thermal Diffusivity of Twenty-Nine Liquids: Alkenes, Cyclic (Alkanes, Alkenes, Alkadienes, Aromatics), and Deuterated Hydrocarbons	
tcondl	0.13	W/m×K	312.29	Thermal Conductivity and Thermal Diffusivity of Twenty-Nine Liquids: Alkenes, Cyclic (Alkanes, Alkenes, Alkadienes, Aromatics), and Deuterated Hydrocarbons	

tcondl	0.13	W/m×K	312.44	Thermal Conductivity and Thermal Diffusivity of Twenty-Nine Liquids: Alkenes, Cyclic (Alkanes, Alkenes, Alkadienes, Aromatics), and Deuterated Hydrocarbons	
tcondl	0.12	W/m×K	328.72	Thermal Conductivity and Thermal Diffusivity of Twenty-Nine Liquids: Alkenes, Cyclic (Alkanes, Alkenes, Alkadienes, Aromatics), and Deuterated Hydrocarbons	
tcondl	0.12	W/m×K	328.94	Thermal Conductivity and Thermal Diffusivity of Twenty-Nine Liquids: Alkenes, Cyclic (Alkanes, Alkenes, Alkadienes, Aromatics), and Deuterated Hydrocarbons	
tcondl	0.12	W/m×K	329.09	Thermal Conductivity and Thermal Diffusivity of Twenty-Nine Liquids: Alkenes, Cyclic (Alkanes, Alkenes, Alkadienes, Aromatics), and Deuterated Hydrocarbons	
tcondl	0.13	W/m×K	312.07	Thermal Conductivity and Thermal Diffusivity of Twenty-Nine Liquids: Alkenes, Cyclic (Alkanes, Alkenes, Alkadienes, Aromatics), and Deuterated Hydrocarbons	

Correlations

Information	Value
Property code	pvap
Equation	ln(Pvp) = A + B/(T + C)
Coeff. A	1.44465e+01
Coeff. B	-3.60720e+03
Coeff. C	-5.05540e+01
Temperature range (K), min.	305.32
Temperature range (K), max.	445.43

Information	Value
Property code	pvap
Equation	ln(Pvp) = A + B/T + C*ln(T) + D*T^2
Coeff. A	8.33218e+01
Coeff. B	-7.94623e+03
Coeff. C	-1.00606e+01
Coeff. D	5.93974e-06
Temperature range (K), min.	247.98
Temperature range (K), max.	630.37

Datasets

Refractive index (Na D-line)

Pressure, kPa - Liquid	Temperature, K - Liquid	Refractive index (Na D-line) - Liquid
93.00	298.15	1.5022

Reference *https://www.doi.org/10.1021/acs.jced.7b00372*

Mass density, kg/m3

Temperature, K - Liquid	Pressure, kPa - Liquid	Mass density, kg/m3 - Liquid
283.15	100.00	890.5
283.15	1000.00	890.8
283.15	3000.00	892.4
283.15	5000.00	893.5
283.15	10000.00	896.7
283.15	15000.00	899.0
283.15	20000.00	902.6
283.15	25000.00	905.3
283.15	30000.00	908.1
283.15	35000.00	910.9
283.15	40000.00	913.3
283.15	50000.00	918.2
283.15	60000.00	923.0
293.15	100.00	879.7
293.15	1000.00	879.9
293.15	3000.00	881.4
293.15	5000.00	882.4
293.15	10000.00	885.9
293.15	15000.00	888.9
293.15	20000.00	892.0
293.15	25000.00	894.9
293.15	30000.00	897.8
293.15	35000.00	900.5
293.15	40000.00	903.1
293.15	50000.00	908.5
293.15	60000.00	913.1
303.15	100.00	870.9
303.15	1000.00	871.6
303.15	3000.00	873.0
303.15	5000.00	874.4
303.15	10000.00	877.8
303.15	15000.00	881.1
303.15	20000.00	884.2
303.15	25000.00	887.3
303.15	30000.00	890.3
303.15	35000.00	893.1
303.15	40000.00	895.9
303.15	50000.00	901.2
303.15	60000.00	906.4
313.15	100.00	862.7
313.15	1000.00	862.9
313.15	3000.00	864.5
313.15	5000.00	865.9

313.15	10000.00	869.6
313.15	15000.00	873.0
313.15	20000.00	876.3
313.15	25000.00	879.6
313.15	30000.00	882.7
313.15	35000.00	885.7
313.15	40000.00	888.4
313.15	50000.00	894.2
313.15	60000.00	899.2
323.15	100.00	853.8
323.15	1000.00	854.6
323.15	3000.00	856.1
323.15	5000.00	857.7
323.15	10000.00	861.5
323.15	15000.00	865.2
323.15	20000.00	868.8
323.15	25000.00	872.0
323.15	30000.00	875.3
323.15	35000.00	878.4
323.15	40000.00	881.5
323.15	50000.00	887.3
323.15	60000.00	892.8
333.15	100.00	845.1
333.15	1000.00	846.0
333.15	3000.00	847.8
333.15	5000.00	849.4
333.15	10000.00	853.3
333.15	15000.00	857.1
333.15	20000.00	860.9
333.15	25000.00	864.4
333.15	30000.00	867.8
333.15	35000.00	871.0
333.15	40000.00	874.3
333.15	50000.00	880.3
333.15	60000.00	886.0
343.15	100.00	836.3
343.15	1000.00	837.2
343.15	3000.00	839.0
343.15	5000.00	840.9
343.15	10000.00	844.9
343.15	15000.00	849.0
343.15	20000.00	853.0
343.15	25000.00	856.6
343.15	30000.00	860.2

343.15	35000.00	863.7
343.15	40000.00	866.8
343.15	50000.00	873.2
343.15	60000.00	878.9
353.15	100.00	827.8
353.15	1000.00	828.6
353.15	3000.00	830.6
353.15	5000.00	832.4
353.15	10000.00	836.9
353.15	15000.00	841.2
353.15	20000.00	845.1
353.15	25000.00	849.1
353.15	30000.00	852.8
353.15	35000.00	856.4
353.15	40000.00	859.8
353.15	50000.00	866.3
353.15	60000.00	872.5
363.15	100.00	819.3
363.15	1000.00	820.3
363.15	3000.00	822.4
363.15	5000.00	824.3
363.15	10000.00	828.7
363.15	15000.00	833.6
363.15	20000.00	837.6
363.15	25000.00	841.5
363.15	30000.00	845.5
363.15	35000.00	849.3
363.15	40000.00	853.1
363.15	50000.00	859.8
363.15	60000.00	866.3

Reference *https://www.doi.org/10.1016/j.fluid.2019.06.014*

Viscosity, Pa*s

Temperature, K - Liquid	Pressure, kPa - Liquid	Viscosity, Pa*s - Liquid
273.48	100.00	0.0011017
273.48	1000.00	0.0011126
273.48	5000.00	0.0011545
273.48	10000.00	0.0012091
273.48	15000.00	0.0012642

273.48	20000.00	0.0013191
273.48	25000.00	0.0013777
273.48	30000.00	0.0014359
283.22	100.00	0.0009464
283.22	1000.00	0.0009529
283.22	5000.00	0.0009859
283.21	10000.00	0.0010310
283.21	15000.00	0.0010749
283.21	20000.00	0.0011209
283.21	25000.00	0.0011687
283.21	30000.00	0.0012159
293.04	100.00	0.0008196
293.04	1000.00	0.0008252
293.04	5000.00	0.0008535
293.04	10000.00	0.0008901
293.05	15000.00	0.0009269
293.05	20000.00	0.0009685
293.05	25000.00	0.0010062
293.06	30000.00	0.0010477
302.87	100.00	0.0007178
302.87	1000.00	0.0007228
302.88	5000.00	0.0007489
302.88	10000.00	0.0007794
302.88	15000.00	0.0008128
302.87	20000.00	0.0008457
302.87	25000.00	0.0008790
302.87	30000.00	0.0009126
312.66	100.00	0.0006371
312.67	1000.00	0.0006414
312.67	5000.00	0.0006635
312.66	10000.00	0.0006901
312.67	15000.00	0.0007185
312.66	20000.00	0.0007486
312.66	25000.00	0.0007781
312.66	30000.00	0.0008077
321.85	100.00	0.0005744
321.85	1000.00	0.0005794
321.86	5000.00	0.0005991
321.85	10000.00	0.0006241
321.85	15000.00	0.0006489
321.86	20000.00	0.0006748
321.86	25000.00	0.0006987
321.85	30000.00	0.0007248
332.47	100.00	0.0005150

332.47	1000.00	0.0005176
332.48	5000.00	0.0005347
332.48	10000.00	0.0005575
332.48	15000.00	0.0005798
332.48	20000.00	0.0006029
332.48	25000.00	0.0006273
332.48	30000.00	0.0006504
343.06	100.00	0.0004586
343.07	1000.00	0.0004624
343.07	5000.00	0.0004782
343.07	10000.00	0.0004990
343.08	15000.00	0.0005195
343.09	20000.00	0.0005401
343.08	25000.00	0.0005603
343.08	30000.00	0.0005817
353.04	100.00	0.0004177
353.04	1000.00	0.0004196
353.03	5000.00	0.0004342
353.02	10000.00	0.0004549
353.02	15000.00	0.0004725
353.02	20000.00	0.0004922
353.02	25000.00	0.0005113
353.01	30000.00	0.0005312
362.85	100.00	0.0003838
362.85	1000.00	0.0003862
362.85	5000.00	0.0004001
362.85	10000.00	0.0004169
362.86	15000.00	0.0004340
362.86	20000.00	0.0004506
362.87	25000.00	0.0004690
362.87	30000.00	0.0004842
372.83	100.00	0.0003528
372.84	1000.00	0.0003556
372.84	5000.00	0.0003683
372.85	10000.00	0.0003831
372.86	15000.00	0.0004015
372.86	20000.00	0.0004156
372.85	25000.00	0.0004324
372.86	30000.00	0.0004477

Reference *https://www.doi.org/10.1016/j.jct.2015.11.027*

Temperature, K	**Pressure, kPa**	**Viscosity, Pa*s**

303.15	101.30	0.0007272
Reference		https://www.doi.org/10.1021/je034204h

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Legend

af:	Acentric Factor
affp:	Proton affinity
aigt:	Autoignition Temperature
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
ep:	Protonation entropy at 298K
fll:	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
hcg:	Heat of Combustion, Gross form
hcn:	Heat of Combustion, Net Form
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
hsubt:	Enthalpy of sublimation 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
nfpaf:	NFPA Fire Rating
nfpah:	NFPA Health Rating
pc:	Critical Pressure
pvap:	Vapor pressure
rfi:	Refractive Index
rhoc:	Critical density
rhol:	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
tcondl:	Liquid thermal conductivity
tf:	Normal melting (fusion) point
tt:	Triple Point Temperature
vc:	Critical Volume
zc:	Critical Compressibility
zra:	Rackett Parameter