Benzene, 1,3-dimethyl-

Other names:	1,3-DIMETHYLBENZENE
	1,3-Xylene
	1,3-dimethylbenzene (m-xylene)
	2,4-Xylene
	M-DIMETHYLBENZENE
	M-XYLOL
	NSC 61769
	m-Methyltoluene
	m-Xylene
	meta-Xylene
Inchi:	InChI=1S/C8H10/c1-7-4-3-5-8(2)6-7/h3-6H,1-2H3
InchiKey:	IVSZLXZYQVIEFR-UHFFFAOYSA-N
Formula:	C8H10
SMILES:	Cc1cccc(C)c1
Mol. weight [g/mol]:	106.17
CAS:	108-38-3

Physical Properties

Property code	Value	Unit	Source
af	0.3250		KDB
affp	809.10 ± 1.20	kJ/mol	NIST Webbook
affp	812.10	kJ/mol	NIST Webbook
affp	816.70	kJ/mol	NIST Webbook
aigt	803.15	K	KDB
basg	782.40 ± 1.80	kJ/mol	NIST Webbook
basg	787.80	kJ/mol	NIST Webbook
basg	786.20	kJ/mol	NIST Webbook
chl	-4551.86 ± 0.63	kJ/mol	NIST Webbook
chl	-4581.40	kJ/mol	NIST Webbook
chl	-4549.56 ± 0.54	kJ/mol	NIST Webbook
chl	-4567.60	kJ/mol	NIST Webbook
cpl	181.38	J/mol×K	Thermodynamics of mixtures involving some (benzene derivatives + benzonitrile)
dm	0.30	debye	KDB

dvisc	0.0005870	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
dvisc	0.0005870	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
ep	19.20	J/mol×K	NIST Webbook
fll	1.10	% in Air	KDB
flu	6.40	% in Air	KDB
fpo	302.04	K	KDB
gf	118.90	kJ/mol	KDB
gyrad	3.8970		KDB
hcg	4551.86	kJ/mol	KDB
hcn	4331.779	kJ/mol	KDB
hf	17.20 ± 0.75	kJ/mol	NIST Webbook
hf	17.25	kJ/mol	KDB
hfl	-25.40 ± 0.75	kJ/mol	NIST Webbook
hfus	10.13	kJ/mol	Joback Method
hvap	42.68	kJ/mol	NIST Webbook
hvap	42.70	kJ/mol	NIST Webbook
hvap	36.40	kJ/mol	NIST Webbook
hvap	42.70 ± 0.10	kJ/mol	NIST Webbook
hvap	42.60	kJ/mol	NIST Webbook
hvap	36.40 ± 0.40	kJ/mol	NIST Webbook
hvap	43.04	kJ/mol	NIST Webbook
hvap	42.65	kJ/mol	NIST Webbook
ie	8.57 ± 0.01	eV	NIST Webbook
ie	8.75 ± 0.03	eV	NIST Webbook
ie	8.55 ± 0.02	eV	NIST Webbook
ie	8.71 ± 0.01	eV	NIST Webbook
ie	8.56	eV	NIST Webbook
ie	8.55	eV	NIST Webbook
ie	8.82	eV	NIST Webbook
ie	8.56	eV	NIST Webbook
ie	8.56 ± 0.01	eV	NIST Webbook
ie	8.56	eV	NIST Webbook
ie	8.55 ± 0.05	eV	NIST Webbook
ie	8.50 ± 0.02	eV	NIST Webbook
ie	8.90 ± 0.05	eV	NIST Webbook
log10ws	-2.82		Aqueous Solubility Prediction Method

log10ws	-2.82		Estimated Solubility Method
logp	2.303		Crippen Method
mcvol	99.820	ml/mol	McGowan Method
nfpaf	%!d(float64=3)		KDB
nfpah	%!d(float64=2)		KDB
pc	3343.73 ± 151.99	kPa	NIST Webbook
pc	3541.00 ± 6.00	kPa	NIST Webbook
pc	3541.20 ± 5.00	kPa	NIST Webbook
pc	3540.00 ± 40.00	kPa	NIST Webbook
pc	3510.00 ± 3.92	kPa	NIST Webbook
pc	3541.00	kPa	KDB
rhoc	283.46 ± 4.25	kg/m3	NIST Webbook
rhoc	284.95 ± 5.31	kg/m3	NIST Webbook
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tb	412.00 ± 2.00	K	NIST Webbook
tb	412.15 ± 0.30	K	NIST Webbook
tb	411.90 ± 0.70	K	NIST Webbook
tb	412.00 ± 2.00	K	NIST Webbook
tb	412.15 ± 0.10	K	NIST Webbook
tb	409.00 ± 3.00	K	NIST Webbook
tb	412.45 ± 0.40	K	NIST Webbook
tb	412.50 ± 0.30	K	NIST Webbook
tb	413.35 ± 1.50	K	NIST Webbook
tb	412.50 ± 0.20	K	NIST Webbook
tb	412.20 ± 0.50	K	NIST Webbook
tb	412.20 ± 0.50	K	NIST Webbook
tb	412.20 ± 0.50	K	NIST Webbook
tb	412.27	K	KDB
tb	412.00	K	Isobaric vapor-liquid equilibrium for the binary mixtures of nonane with cyclohexane, toluene, m-xylene, or p-xylene at 101.3 kPa
tb	412.21	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	412.15 ± 0.20	K	NIST Webbook
tb	412.29 ± 0.15	K	NIST Webbook

tb	412.30	K	NIST Webbook
tb	412.30	K	NIST Webbook
tb	412.20 ± 0.20	K	NIST Webbook
tb	412.40 ± 0.20	K	NIST Webbook
tb	412.25 ± 1.00	K	NIST Webbook
tb	409.00 ± 8.00	K	NIST Webbook
tb	412.23 ± 0.20	K	NIST Webbook
tb	412.30 ± 0.50	K	NIST Webbook
tb	412.10 ± 0.40	K	NIST Webbook
tb	412.00 ± 1.50	K	NIST Webbook
tb	412.40 ± 0.50	K	NIST Webbook
tb	412.25 ± 0.02	K	NIST Webbook
tb	412.40 ± 0.60	K	NIST Webbook
tb	412.30 ± 0.15	K	NIST Webbook
tb	412.40 ± 1.50	K	NIST Webbook
tb	412.35 ± 0.50	K	NIST Webbook
tb	412.25 ± 0.01	K	NIST Webbook
tb	412.15 ± 1.00	K	NIST Webbook
tb	412.26 ± 0.06	K	NIST Webbook
tb	412.35 ± 0.30	K	NIST Webbook
tb	412.38 ± 0.10	K	NIST Webbook
tb	412.22 ± 0.20	K	NIST Webbook
tb	412.35 ± 0.50	K	NIST Webbook
tb	412.45 ± 0.20	K	NIST Webbook
tb	412.40 ± 0.50	K	NIST Webbook
tc	617.00	K	KDB
tf	225.80 ± 0.30	K	NIST Webbook
tf	225.30	K	KDB
tf	225.55	K	Aqueous Solubility Prediction Method
tf	225.20 ± 0.15	K	NIST Webbook
tf	219.55 ± 0.40	K	NIST Webbook
tf	223.85 ± 0.30	K	NIST Webbook
tf	225.80 ± 0.50	K	NIST Webbook
tf	226.65 ± 0.20	K	NIST Webbook
tf	225.17 ± 0.01	K	NIST Webbook
tf	225.22 ± 0.15	K	NIST Webbook
tf	225.25 ± 0.10	K	NIST Webbook
tt	219.60 ± 0.30	K	NIST Webbook
vc	0.375	m3/kmol	NIST Webbook
vc	0.375	m3/kmol	KDB
zc	0.2588420		KDB
zra	0.26		KDB

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	163.60 ± 1.70	J/mol×K	393.00	NIST Webbook
cpg	190.00 ± 1.70	J/mol×K	463.00	NIST Webbook
cpg	177.40 ± 1.70	J/mol×K	428.00	NIST Webbook
cpl	175.30	J/mol×K	275.30	NIST Webbook
cpl	183.18	J/mol×K	298.15	NIST Webbook
cpl	184.50	J/mol×K	298.00	NIST Webbook
cpl	181.48	J/mol×K	298.15	NIST Webbook
cpl	181.55	J/mol×K	298.15	NIST Webbook
cpl	178.20	J/mol×K	303.00	NIST Webbook
cpl	184.63	J/mol×K	298.15	NIST Webbook
cpl	199.20	J/mol×K	336.00	NIST Webbook
dvisc	0.0006190	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	0.0004130	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	0.0004350	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	0.0004440	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	0.0004817	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	0.0004967	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	0.0005201	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	0.0005570	Pa×s	303.15	Thermophysical Properties of Isoamyl Acetate or Methyl Benzoate + Hydrocarbon Binary Mixtures, at (303.15 and 313.15) K

dvisc	0.0005490	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	0.0005080	Pa×s	313.15	Thermophysical Properties of Isoamyl Acetate or Methyl Benzoate + Hydrocarbon Binary Mixtures, at (303.15 and 313.15) K
dvisc	0.0004101	Pa×s	333.15	Densities and Viscosities of N-Formylmorpholine (NFM) + p-Xylene, + o-Xylene, + m-Xylene at Different Temperatures and Atmospheric Pressure
dvisc	0.0004488	Pa×s	323.15	Densities and Viscosities of N-Formylmorpholine (NFM) + p-Xylene, + o-Xylene, + m-Xylene at Different Temperatures and Atmospheric Pressure
dvisc	0.0004970	Pa×s	313.15	Densities and Viscosities of N-Formylmorpholine (NFM) + p-Xylene, + o-Xylene, + m-Xylene at Different Temperatures and Atmospheric Pressure

dvisc	0.0005531	Pa×s	303.15	Densities and Viscosities of N-Formylmorpholine (NFM) + p-Xylene, + o-Xylene, + m-Xylene at Different Temperatures and Atmospheric Pressure
dvisc	0.0005848	Pa×s	298.15	Densities and Viscosities of N-Formylmorpholine (NFM) + p-Xylene, + o-Xylene, + m-Xylene at Different Temperatures and Atmospheric Pressure
dvisc	0.0003748	Pa×s	343.15	Densities and Viscosities of N-Formylmorpholine (NFM) + p-Xylene, + o-Xylene, + m-Xylene at Different Temperatures and Atmospheric Pressure
dvisc	0.0005210	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	0.0005520	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	0.0005870	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	0.0004710	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	0.0005501	Pa×s	303.15	Thermodynamic Properties of the Binary Mixture of Hexan-1-ol with m-Xylene at T = (303.15, 313.15, and 323.15) K
dvisc	0.0004700	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	0.0004944	Pa×s	313.15	Thermodynamic Properties of the Binary Mixture of Hexan-1-ol with m-Xylene at T = (303.15, 313.15, and 323.15) K
dvisc	0.0004472	Pa×s	323.15	Thermodynamic Properties of the Binary Mixture of Hexan-1-ol with m-Xylene at T = (303.15, 313.15, and 323.15) K
dvisc	0.0003440	Pa×s	353.15	Densities and Viscosities of N-Formylmorpholine (NFM) + p-Xylene, + o-Xylene, + m-Xylene at Different Temperatures and Atmospheric Pressure

dvisc	0.0005810	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	0.0005880	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	0.0005229	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	0.0004684	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	0.0005540	Pa×s	303.15	Viscometric Studies of Molecular Interactions in Binary Liquid Mixtures of Isomeric Xylenes with Methanol

dvisc	0.0005240	Pa×s	308.15	Viscometric Studies of Molecular Interactions in Binary Liquid Mixtures of Isomeric Xylenes with Methanol	
dvisc	0.0004980	Pa×s	313.15	Viscometric Studies of Molecular Interactions in Binary Liquid Mixtures of Isomeric Xylenes with Methanol	
dvisc	0.0004720	Pa×s	318.15	Viscometric Studies of Molecular Interactions in Binary Liquid Mixtures of Isomeric Xylenes with Methanol	
dvisc	0.0004520	Pa×s	323.15	Viscometric Studies of Molecular Interactions in Binary Liquid Mixtures of Isomeric Xylenes with Methanol	
dvisc	0.0005820	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	0.0004990	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	0.0005892	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	0.0005471	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	0.0004428	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	0.0005570	Pa×s	303.15	Viscosity, Density, and Refractive Index of Some (Ester + Hydrocarbon) Binary Mixtures at 303.15 K and 313.15 K
dvisc	0.0005080	Pa×s	313.15	Viscosity, Density, and Refractive Index of Some (Ester + Hydrocarbon) Binary Mixtures at 303.15 K and 313.15 K
dvisc	0.0006660	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	0.0005240	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
hfust	11.57	kJ/mol	225.27	NIST Webbook
hfust	11.57	kJ/mol	225.30	NIST Webbook
hfust	11.59	kJ/mol	225.30	NIST Webbook
hvapt	39.20	kJ/mol	385.00	NIST Webbook
hvapt	40.70	kJ/mol	369.50	NIST Webbook
hvapt	36.40	kJ/mol	507.50	NIST Webbook
hvapt	37.50	kJ/mol	437.00	NIST Webbook
hvapt	44.70	kJ/mol	284.00	NIST Webbook
hvapt	40.40	kJ/mol	373.00	NIST Webbook
hvapt	38.70	kJ/mol	395.50	NIST Webbook
hvapt	36.36	kJ/mol	412.20	KDB
hvapt	43.20	kJ/mol	303.00	NIST Webbook
hvapt	35.66	kJ/mol	412.30	NIST Webbook
hvapt	36.20	kJ/mol	583.50	NIST Webbook

pvap	93.13	kPa	409.13	Refractive Index and Vapor-Liquid Equilibrium Data for the Binary Systems of Anisole with Xylene Isomers at 93.13 kPa
pvap	80.20	kPa	403.15	Vapor-liquid equilibrium for the binary mixtures of dipropylene glycol with aromatic hydrocarbons: Experimental and regression
pvap	11.00	kPa	345.15	Vapour-liquid equilibrium for tripropylene glycol + aromatic hydrocarbons binary systems: Experimental data and regression
pvap	22.76	kPa	363.15	Vapor-liquid equilibrium for the binary mixtures of dipropylene glycol with aromatic hydrocarbons: Experimental and regression
pvap	44.23	kPa	383.15	Vapor-liquid equilibrium for the binary mixtures of dipropylene glycol with aromatic hydrocarbons: Experimental and regression
pvap	16.32	kPa	355.15	Vapour-liquid equilibrium for tripropylene glycol + aromatic hydrocarbons binary systems: Experimental data and regression

pvap	19.68	kPa	360.15	Vapour-liquid equilibrium for tripropylene glycol + aromatic hydrocarbons binary systems: Experimental data and regression
pvap	23.59	kPa	365.15	Vapour-liquid equilibrium for tripropylene glycol + aromatic hydrocarbons binary systems: Experimental data and regression
pvap	1.10	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	250.00	kPa	450.10	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	32.06	kPa	373.15	Vapor-liquid equilibrium for the binary mixtures of dipropylene glycol with aromatic hydrocarbons: Experimental and regression
pvap	13.44	kPa	350.15	Vapour-liquid equilibrium for tripropylene glycol + aromatic hydrocarbons binary systems: Experimental data and regression
pvap	40.00	kPa	380.51	Determination and correlation of vapor liquid equilibrium for binary systems consisting of close-boiling components

pvap	53.33	kPa	389.66	Determination and correlation of vapor liquid equilibrium for binary systems consisting of close-boiling components	
pvap	66.66	kPa	397.13	Determination and correlation of vapor liquid equilibrium for binary systems consisting of close-boiling components	
pvap	79.99	kPa	403.51	Determination and correlation of vapor liquid equilibrium for binary systems consisting of close-boiling components	
pvap	93.32	kPa	409.09	Determination and correlation of vapor liquid equilibrium for binary systems consisting of close-boiling components	
pvap	0.10	kPa	263.75	Vapour liquid equilibria, enthalpy of mixing of binary mixtures containing diisopropylether DIPE and monoaromatic hydrocarbons Experimental results and modelling	
pvap	0.21	kPa	273.47	Vapour liquid equilibria, enthalpy of mixing of binary mixtures containing diisopropylether DIPE and monoaromatic hydrocarbons Experimental results and modelling	

pvap	0.43	kPa	283.35	Vapour liquid equilibria, enthalpy of mixing of binary mixtures containing diisopropylether DIPE and monoaromatic hydrocarbons Experimental results and modelling
pvap	0.86	kPa	293.29	Vapour liquid equilibria, enthalpy of mixing of binary mixtures containing diisopropylether DIPE and monoaromatic hydrocarbons Experimental results and modelling
pvap	1.59	kPa	303.28	Vapour liquid equilibria, enthalpy of mixing of binary mixtures containing diisopropylether DIPE and monoaromatic hydrocarbons Experimental results and modelling
pvap	2.77	kPa	313.27	Vapour liquid equilibria, enthalpy of mixing of binary mixtures containing diisopropylether DIPE and monoaromatic hydrocarbons Experimental results and modelling
pvap	4.41	kPa	323.25	Vapour liquid equilibria, enthalpy of mixing of binary mixtures containing diisopropylether DIPE and monoaromatic hydrocarbons Experimental results and modelling

pvap	6.85	kPa	333.22	Vapour liquid equilibria, enthalpy of mixing of binary mixtures containing diisopropylether DIPE and monoaromatic hydrocarbons Experimental results and modelling	
pvap	10.48	kPa	343.18	Vapour liquid equilibria, enthalpy of mixing of binary mixtures containing diisopropylether DIPE and monoaromatic hydrocarbons Experimental results and modelling	
pvap	6.59	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	15.09	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	6.58	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	10.17	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	15.12	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	101.30	kPa	412.00	Isobaric vapor-liquid equilibrium for the binary mixtures of nonane with cyclohexane, toluene, m-xylene, or p-xylene at 101.3 kPa
pvap	2.63	kPa	308.15	Vapor-liquid equilibrium for the binary mixtures of dipropylene glycol with aromatic hydrocarbons: Experimental and regression

pvap	3.52	kPa	313.15	Vapor-liquid equilibrium for the binary mixtures of dipropylene glycol with aromatic hydrocarbons: Experimental and regression	
pvap	4.37	kPa	318.15	Vapor-liquid equilibrium for the binary mixtures of dipropylene glycol with aromatic hydrocarbons: Experimental and regression	
pvap	5.37	kPa	323.15	Vapor-liquid equilibrium for the binary mixtures of dipropylene glycol with aromatic hydrocarbons: Experimental and regression	
pvap	6.50	kPa	328.15	Vapor-liquid equilibrium for the binary mixtures of dipropylene glycol with aromatic hydrocarbons: Experimental and regression	
pvap	7.75	kPa	333.15	Vapor-liquid equilibrium for the binary mixtures of dipropylene glycol with aromatic hydrocarbons: Experimental and regression	
pvap	9.30	kPa	338.15	Vapor-liquid equilibrium for the binary mixtures of dipropylene glycol with aromatic hydrocarbons: Experimental and regression	

pvap	11.12	kPa	343.15	Vapor-liquid equilibrium for the binary mixtures of dipropylene glycol with aromatic hydrocarbons: Experimental and regression
pvap	15.97	kPa	353.15	Vapor-liquid equilibrium for the binary mixtures of dipropylene glycol with aromatic hydrocarbons: Experimental and regression
rfi	1.49720		293.15	Solubilities of Methyldiphenylphosphine Oxide in Selected Solvents
rfi	1.48440		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	1.49740		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	1.48653	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	1.49466	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	1.49720	293.15	Activity coefficients and excess Gibbs free energy of some binary mixtures formed by p-cresol at 95.23 kPa
rfi	1.48700	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	1.48960	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	1.49220	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	1.49480	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	1.49990	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	1.48440	318.15	Refractive Indices of Binary Mixtures of Tetrahydrofuran with Aromatic Hydrocarbon at Temperatures from (288.15 to 318.15) K
rfi	1.49740	293.15	Refractive Indices of Binary Mixtures of Tetrahydrofuran with Aromatic Hydrocarbon at Temperatures from (288.15 to 318.15) K
rfi	1.49990	288.15	Refractive Indices of Binary Mixtures of Tetrahydrofuran with Aromatic Hydrocarbon at Temperatures from (288.15 to 318.15) K
rfi	1.49440	298.15	Densities, Excess Molar Volumes, Viscosity, and Refractive Indices of Binary Mixtures of Ethanoic Acid and Trichloroethylene with Dimethylbenzenes at Different Temperatures
rfi	1.49440	298.15	Isobaric Vapor-Liquid Equilibria for the Binary Mixtures of Styrene with Ethylbenzene, o-Xylene, m-Xylene, and p-Xylene
rfi	1.49450	298.15	Densities, Surface Tensions, and Refractive Indexes of Propyl Propanoate + Hexane + m-Xylene at 298.15 K

rfi	1.49470	298.15	Solubilities of Bis (2,2,6,6-Tetramethyl-4-Piperidinyl) Maleate in Hexane, Heptane, Octane, m-Xylene and Tetrahydrofuran from (253.15 to 310.15) K
rfi	1.49430	298.15	Liquid-liquid equilibria for mixtures of (Furfural + an Aromatic hydrocarbon + an alkane) at T=298.15 K
rfi	1.49360	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	1.49450	298.15	Excess molar volumes of (octane + benzene, or toluene, or 1,3-xylene, or 1,3,5-trimethylbenzene) at temperatures between (298.15 and 328.15) K
rfi	1.48700	313.15	Refractive Indices of Binary Mixtures of Tetrahydrofuran with Aromatic Hydrocarbon at Temperatures from (288.15 to 318.15) K
rfi	1.49430	293.10	(Liquid + liquid) equilibria of {heptane + xylene + N-formylmorpholine} ternary system
rfi	1.48960	308.15	Refractive Indices of Binary Mixtures of Tetrahydrofuran with Aromatic Hydrocarbon at Temperatures from (288.15 to 318.15) K

rfi	1.49430	293.10	(Liquid + liquid) equilibria of three ternary systems: (heptane + benzene + N-formylmorpholine), (heptane + toluene + N-formylmorpholine), (heptane + xylene + N-formylmorpholine) from T = (298.15 to 353.15) K
rfi	1.49730	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	1.49730	298.15	Densities and volumetric properties of binary mixtures of xylene with N,N-dimethylformamide at different temperatures
rfi	1.49250	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	1.49440	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	1.49220	303.15	Refractive Indices of Binary Mixtures of Tetrahydrofuran with Aromatic Hydrocarbon at Temperatures from (288.15 to 318.15) K
rfi	1.49970	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	1.49460	298.15	(Vapor + liquid) equilibria of binary mixtures formed by iso-octane with a variety of compounds at 95.8 kPa
rfi	1.49735	293.15	A study of densities and volumetric properties of binary mixtures containing nitrobenzene at T = (293.15 to 353.15) K
rfi	1.49730	293.15	Densities and volumetric properties of a (xylene + dimethyl sulfoxide) at temperature from (293.15 to 353.15) K
rfi	1.49730	293.10	Volumetric properties of (cyclohexanone + a xylene) at temperature between (293.15 and 353.15) K

rfi	1.49720	293.15	Excess Gibbs' energies of the binary mixtures formed by N,N-dimethylformamide with xylenes and cresols at 95.1 kPa
rfi	1.49468	298.15	Separation of aromatic hydrocarbons from alkanes using ammonium ionic liquid C2NTf2 at T = 298.15K
rfi	1.49720	293.15	Bubble points of some binary mixtures formed by o-cresol at 95.75 kPa
rfi	1.49460	308.15	Topological and thermodynamic investigations of molecular interactions in binary mixtures: Molar excess volumes and molar excess enthalpies
rfi	1.49460	298.15	Bubble temperature measurements on the binary mixtures formed by decane with a variety of compounds at 95.8 kPa
rfi	1.49480	298.15	Refractive Indices of Binary Mixtures of Tetrahydrofuran with Aromatic Hydrocarbon at Temperatures from (288.15 to 318.15) K
rfi	1.49730	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	1.49464		298.15	KDB
rhol	864.16	kg/m3	293.15	Surface tension and density of mixtures of m-xylene + n-alkane at 293.15 K: Analysis under the extended Langmuir and Shereshefsky models
rhol	833.85	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	810.51	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	819.97	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	829.22	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	838.27	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	847.11	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	855.76	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	864.20	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	842.58	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	860.07	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	859.95	kg/m3	298.15	Isobaric vapor-liquid equilibrium for n-undecane + p-, o-, m-xylene at 10 kPa
rhol	859.83	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	859.95	kg/m3	298.15	Isobaric vapor-liquid equilibrium of binary systems of decane with p-, o-, m-xylene at 20 kPa
rhol	868.12	kg/m3	293.15	Liquid liquid equilibrium of ternary systems 1-butyl-3-methylimidazolium hexafluorophosphate + aromatic + aliphatic
rhol	842.88	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	847.17	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	851.45	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	855.74	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	860.02	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	864.31	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	868.59	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	859.78	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	864.00	kg/m3	293.00	KDB	
rhol	859.87	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	868.39	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	

rhol	851.24	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	864.11	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	859.86	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	864.20	kg/m3	293.10	Vapor-Liquid Equilibria Data for Binary Systems of Ethylbenzene + Xylene Isomers at 100.65 kPa
rhol	859.78	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	859.78	kg/m3	298.15	Excess Molar Volumes and Surface Tensions of Xylene with Acetone or 2-Butanone at 298.15 K
rhol	860.00	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	860.00	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	831.60	kg/m3	328.15	Thermophysical Study of Binary Systems of tert-Amyl Methyl Ether with n-Hexane and m-Xylene
rhol	835.80	kg/m3	323.15	Thermophysical Study of Binary Systems of tert-Amyl Methyl Ether with n-Hexane and m-Xylene
rhol	840.40	kg/m3	318.15	Thermophysical Study of Binary Systems of tert-Amyl Methyl Ether with n-Hexane and m-Xylene
rhol	849.20	kg/m3	308.15	Thermophysical Study of Binary Systems of tert-Amyl Methyl Ether with n-Hexane and m-Xylene
rhol	859.10	kg/m3	298.15	Thermophysical Study of Binary Systems of tert-Amyl Methyl Ether with n-Hexane and m-Xylene
rhol	860.06	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	829.56	kg/m3	333.15	Thermodynamic characterization of binary mixtures of poly(propylene glycol) 425 with toluene and o-, m- and p-xylenes
rhol	859.95	kg/m3	298.15	Isobaric vapor-liquid equilibrium data of the binary systems of octane with p, o, m-xylene at 20 kPa
rhol	833.95	kg/m3	328.15	Thermodynamic characterization of binary mixtures of poly(propylene glycol) 425 with toluene and o-, m- and p-xylenes
rhol	838.33	kg/m3	323.15	Thermodynamic characterization of binary mixtures of poly(propylene glycol) 425 with toluene and o-, m- and p-xylenes
rhol	860.06	kg/m3	298.15	Vapor Liquid Equilibrium for 2-Methyl-1-butanol + Ethylbenzene + Xylene Isomers at 101.33 kPa
rhol	842.69	kg/m3	318.15	Thermodynamic characterization of binary mixtures of poly(propylene glycol) 425 with toluene and o-, m- and p-xylenes
rhol	847.03	kg/m3	313.15	Thermodynamic characterization of binary mixtures of poly(propylene glycol) 425 with toluene and o-, m- and p-xylenes
rhol	851.36	kg/m3	308.15	Thermodynamic characterization of binary mixtures of poly(propylene glycol) 425 with toluene and o-, m- and p-xylenes

rhol	855.68	kg/m3	303.15	Thermodynamic characterization of binary mixtures of poly(propylene glycol) 425 with toluene and o-, m- and p-xylenes
rhol	859.98	kg/m3	298.15	Thermodynamic characterization of binary mixtures of poly(propylene glycol) 425 with toluene and o-, m- and p-xylenes
rhol	864.27	kg/m3	293.15	Thermodynamic characterization of binary mixtures of poly(propylene glycol) 425 with toluene and o-, m- and p-xylenes
rhol	868.56	kg/m3	288.15	Thermodynamic characterization of binary mixtures of poly(propylene glycol) 425 with toluene and o-, m- and p-xylenes
rhol	851.25	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
sfust	51.36	J/mol×K	225.27	NIST Webbook
speedsl	1282.30	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	1352.14	m/s	290.65	Influence of temperature on thermodynamics of ethers + xylenes	
speedsl	1341.72	m/s	293.15	Influence of temperature on thermodynamics of ethers + xylenes	
speedsl	1331.31	m/s	295.65	Influence of temperature on thermodynamics of ethers + xylenes	
speedsl	1320.92	m/s	298.15	Influence of temperature on thermodynamics of ethers + xylenes	
speedsl	1310.57	m/s	300.65	Influence of temperature on thermodynamics of ethers + xylenes	
speedsl	1300.27	m/s	303.15	Influence of temperature on thermodynamics of ethers + xylenes	
speedsl	1290.00	m/s	305.65	Influence of temperature on thermodynamics of ethers + xylenes	
speedsl	1279.79	m/s	308.15	Influence of temperature on thermodynamics of ethers + xylenes	
speedsl	1269.59	m/s	310.65	Influence of temperature on thermodynamics of ethers + xylenes	
speedsl	1259.46	m/s	313.15	Influence of temperature on thermodynamics of ethers + xylenes	
speedsl	1249.33	m/s	315.65	Influence of temperature on thermodynamics of ethers + xylenes	
speedsl	1362.66	m/s	288.15	Influence of temperature on thermodynamics of ethers + xylenes	

speedsl	1229.26	m/s	320.65	Influence of temperature on thermodynamics of ethers + xylenes
speedsl	1219.51	m/s	323.15	Influence of temperature on thermodynamics of ethers + xylenes
speedsl	1323.60	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	1302.40	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	1259.00	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	1300.00	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	1340.00	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	1341.00	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	1243.00	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	1262.30	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	1346.70	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	1239.28	m/s	318.15	Influence of temperature on thermodynamics of ethers + xylenes
srf	0.03	N/m	293.20	KDB
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	308.15	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	0.02	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	0.02	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	0.03	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	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	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	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	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	298.15	Experimental and theoretical surface tension deviations in the binary systems propyl propanoate + o-, m- and p-xylene at 298.15K	

tcondl	0.14	W/m×K	258.17	Thermal Conductivity and Thermal Diffusivity of Twenty-Nine Liquids: Alkenes, Cyclic (Alkanes, Alkenes, Alkadienes, Aromatics), and Deuterated Hydrocarbons	
tcondl	0.13	W/m×K	312.00	Thermal Conductivity and Thermal Diffusivity of Twenty-Nine Liquids: Alkenes, Cyclic (Alkanes, Alkenes, Alkadienes, Aromatics), and Deuterated Hydrocarbons	
tcondl	0.12	W/m×K	328.79	Thermal Conductivity and Thermal Diffusivity of Twenty-Nine Liquids: Alkenes, Cyclic (Alkanes, Alkenes, Alkadienes, Aromatics), and Deuterated Hydrocarbons	
tcondl	0.12	W/m×K	329.04	Thermal Conductivity and Thermal Diffusivity of Twenty-Nine Liquids: Alkenes, Cyclic (Alkanes, Alkenes, Alkadienes, Aromatics), and Deuterated Hydrocarbons	
tcondl	0.12	W/m×K	329.22	Thermal Conductivity and Thermal Diffusivity of Twenty-Nine Liquids: Alkenes, Cyclic (Alkanes, Alkenes, Alkadienes, Aromatics), and Deuterated Hydrocarbons	

tcondl	0.13	W/m×K	311.74	Thermal Conductivity and Thermal Diffusivity of Twenty-Nine Liquids: Alkenes, Cyclic (Alkanes, Alkenes, Alkadienes, Aromatics), and Deuterated Hydrocarbons	
tcondl	0.13	W/m×K	294.49	Thermal Conductivity and Thermal Diffusivity of Twenty-Nine Liquids: Alkenes, Cyclic (Alkanes, Alkenes, Alkadienes, Aromatics), and Deuterated Hydrocarbons	
tcondl	0.13	W/m×K	294.32	Thermal Conductivity and Thermal Diffusivity of Twenty-Nine Liquids: Alkenes, Cyclic (Alkanes, Alkenes, Alkadienes, Aromatics), and Deuterated Hydrocarbons	
tcondl	0.13	W/m×K	294.07	Thermal Conductivity and Thermal Diffusivity of Twenty-Nine Liquids: Alkenes, Cyclic (Alkanes, Alkenes, Alkadienes, Aromatics), and Deuterated Hydrocarbons	
tcondl	0.13	W/m×K	287.77	Thermal Conductivity and Thermal Diffusivity of Twenty-Nine Liquids: Alkenes, Cyclic (Alkanes, Alkenes, Alkadienes, Aromatics), and Deuterated Hydrocarbons	

tcondl	0.13	W/m×K	287.60	Thermal Conductivity and Thermal Diffusivity of Twenty-Nine Liquids: Alkenes, Cyclic (Alkanes, Alkenes, Alkadienes, Aromatics), and Deuterated Hydrocarbons	
tcondl	0.13	W/m×K	287.36	Thermal Conductivity and Thermal Diffusivity of Twenty-Nine Liquids: Alkenes, Cyclic (Alkanes, Alkenes, Alkadienes, Aromatics), and Deuterated Hydrocarbons	
tcondl	0.14	W/m×K	275.44	Thermal Conductivity and Thermal Diffusivity of Twenty-Nine Liquids: Alkenes, Cyclic (Alkanes, Alkenes, Alkadienes, Aromatics), and Deuterated Hydrocarbons	
tcondl	0.14	W/m×K	275.28	Thermal Conductivity and Thermal Diffusivity of Twenty-Nine Liquids: Alkenes, Cyclic (Alkanes, Alkenes, Alkadienes, Aromatics), and Deuterated Hydrocarbons	
tcondl	0.14	W/m×K	275.04	Thermal Conductivity and Thermal Diffusivity of Twenty-Nine Liquids: Alkenes, Cyclic (Alkanes, Alkenes, Alkadienes, Aromatics), and Deuterated Hydrocarbons	

tcondl	0.14	W/m×K	258.42	Thermal Conductivity and Thermal Diffusivity of Twenty-Nine Liquids: Alkenes, Cyclic (Alkanes, Alkenes, Alkadienes, Aromatics), and Deuterated Hydrocarbons
tcondl	0.14	W/m×K	258.58	Thermal Conductivity and Thermal Diffusivity of Twenty-Nine Liquids: Alkenes, Cyclic (Alkanes, Alkenes, Alkadienes, Aromatics), and Deuterated Hydrocarbons
tcondl	0.13	W/m×K	312.18	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	1.45202e+01
Coeff. B	-3.62202e+03
Coeff. C	-4.64790e+01
Temperature range (K), min.	300.97
Temperature range (K), max.	439.80

Information	Value
Property code	pvap
Equation	ln(Pvp) = A + B/T + C*ln(T) + D*T^2

Coeff. A	7.68670e+01
Coeff. B	-7.55661e+03
Coeff. C	-9.10668e+00
Coeff. D	5.40363e-06
Temperature range (K), min.	225.30
Temperature range (K), max.	617.05

Datasets

Viscosity, Pa*s

Temperature, K - Liquid	Pressure, kPa - Liquid	Viscosity, Pa*s - Liquid
273.56	100.00	0.0007948
273.55	1000.00	0.0008029
273.55	5000.00	0.0008274
273.54	10000.00	0.0008601
273.55	15000.00	0.0008952
273.55	20000.00	0.0009293
273.54	25000.00	0.0009681
273.54	30000.00	0.0010079
283.24	100.00	0.0007000
283.25	1000.00	0.0007070
283.25	5000.00	0.0007291
283.24	10000.00	0.0007574
283.25	15000.00	0.0007883
283.25	20000.00	0.0008196
283.25	25000.00	0.0008530
283.25	30000.00	0.0008858
293.07	100.00	0.0006215
293.06	1000.00	0.0006255
293.07	5000.00	0.0006440
293.07	10000.00	0.0006692
293.07	15000.00	0.0006957
293.06	20000.00	0.0007224
293.06	25000.00	0.0007497
293.07	30000.00	0.0007757
302.90	100.00	0.0005542
302.90	1000.00	0.0005571
302.88	5000.00	0.0005751

302.90	10000.00	0.0005980
302.89	15000.00	0.0006204
302.90	20000.00	0.0006450
302.88	25000.00	0.0006673
302.87	30000.00	0.0006903
313.30	100.00	0.0004952
313.29	1000.00	0.0004982
313.30	5000.00	0.0005142
313.30	10000.00	0.0005341
313.31	15000.00	0.0005548
313.31	20000.00	0.0005757
313.31	25000.00	0.0005968
313.31	30000.00	0.0006180
323.01	100.00	0.0004499
323.01	1000.00	0.0004531
323.01	5000.00	0.0004670
323.00	10000.00	0.0004847
323.02	15000.00	0.0005032
323.02	20000.00	0.0005220
323.02	25000.00	0.0005411
323.02	30000.00	0.0005599
333.10	100.00	0.0004087
333.11	1000.00	0.0004110
333.11	5000.00	0.0004237
333.11	10000.00	0.0004414
333.11	15000.00	0.0004585
333.11	20000.00	0.0004756
333.12	25000.00	0.0004931
333.12	30000.00	0.0005101
342.98	100.00	0.0003731
342.98	1000.00	0.0003761
342.98	5000.00	0.0003882
342.98	10000.00	0.0004036
342.98	15000.00	0.0004205
342.97	20000.00	0.0004363
342.97	25000.00	0.0004516
342.97	30000.00	0.0004678
352.89	100.00	0.0003436
352.89	1000.00	0.0003460
352.89	5000.00	0.0003581
352.89	10000.00	0.0003728
352.89	15000.00	0.0003867
352.88	20000.00	0.0004014
352.88	25000.00	0.0004162

352.88	30000.00	0.0004310
362.69	100.00	0.0003175
362.70	1000.00	0.0003200
362.70	5000.00	0.0003307
362.70	10000.00	0.0003452
362.71	15000.00	0.0003587
362.71	20000.00	0.0003726
362.71	25000.00	0.0003859
362.71	30000.00	0.0003995
372.50	100.00	0.0002936
372.50	1000.00	0.0002964
372.51	5000.00	0.0003070
372.51	10000.00	0.0003199
372.51	15000.00	0.0003331
372.51	20000.00	0.0003463
372.51	25000.00	0.0003587
372.51	30000.00	0.0003715

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

Temperature, K	Pressure, kPa	Viscosity, Pa*s
298.15	100.00	0.0005840
298.15	40100.00	0.0007830
298.15	41000.00	0.0007890
298.15	79700.00	0.0010100
298.15	80300.00	0.0010100
298.15	80400.00	0.0010100
298.15	80800.00	0.0010200
298.15	120200.00	0.0012800
298.15	120400.00	0.0012800
298.15	159100.00	0.0015900
298.15	159400.00	0.0015900
298.15	160000.00	0.0016000
298.15	161300.00	0.0016100
298.15	191300.00	0.0018900
298.15	198500.00	0.0019600
298.15	100.00	0.0005850
298.15	100.00	0.0005840
298.15	100.00	0.0005840
323.15	100.00	0.0004470
323.15	41700.00	0.0006070
323.15	80500.00	0.0007650
323.15	81400.00	0.0007710

323.15	121700.00	0.0009570
323.15	159200.00	0.0011600
323.15	160000.00	0.0011600
323.15	189600.00	0.0013400
323.15	100.00	0.0004480
348.15	100.00	0.0003550
348.15	41400.00	0.0004810
348.15	80900.00	0.0006100
348.15	121200.00	0.0007480
348.15	158900.00	0.0008990
348.15	160800.00	0.0009060
348.15	192300.00	0.0010400
348.15	100.00	0.0003550
348.15	80900.00	0.0006090
373.15	100.00	0.0002910
373.15	41800.00	0.0003980
373.15	80800.00	0.0005040
373.15	81400.00	0.0005040
373.15	121100.00	0.0006160
373.15	158600.00	0.0007310
373.15	160800.00	0.0007370
373.15	191300.00	0.0008380
373.15	100.00	0.0002910
398.15	100.00	0.0002410
398.15	39700.00	0.0003310
398.15	79700.00	0.0004230
398.15	80300.00	0.0004230
398.15	119900.00	0.0005260
398.15	159700.00	0.0006220
398.15	160700.00	0.0006240
398.15	197100.00	0.0007210
398.15	100.00	0.0002410
423.15	21300.00	0.0002490
423.15	21800.00	0.0002500
423.15	40500.00	0.0002870
423.15	80400.00	0.0003660
423.15	80600.00	0.0003660
423.15	122200.00	0.0004500
423.15	160300.00	0.0005310
423.15	161600.00	0.0005340
423.15	195700.00	0.0006110
448.15	19900.00	0.0002130
448.15	20900.00	0.0002150
448.15	40500.00	0.0002510

448.15	79600.00	0.0003200
448.15	81000.00	0.0003230
448.15	120500.00	0.0003930
448.15	161000.00	0.0004700
448.15	162300.00	0.0004710
448.15	190700.00	0.0005280
473.15	19900.00	0.0001870
473.15	20100.00	0.0001870
473.15	40000.00	0.0002210
473.15	79900.00	0.0002870
473.15	80200.00	0.0002870
473.15	120800.00	0.0003530
473.15	163000.00	0.0004250
473.15	163800.00	0.0004260
473.15	196400.00	0.0004830

Reference *https://www.doi.org/10.1021/je800417q*

Refractive index (Na D-line)

Pressure, kPa - Liquid	Temperature, K - Liquid	Refractive index (Na D-line) - Liquid
93.00	298.15	1.4943

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

Mass density, kg/m3

Pressure, kPa - Liquid	Temperature, K - Liquid	Mass density, kg/m3 - Liquid
100.00	293.15	864.2
1000.00	293.15	864.4
3000.00	293.15	865.8
5000.00	293.15	866.9
10000.00	293.15	870.5
15000.00	293.15	873.8
20000.00	293.15	877.0
25000.00	293.15	880.2
30000.00	293.15	883.2
35000.00	293.15	886.0

40000.00	293.15	888.7
50000.00	293.15	894.4
60000.00	293.15	899.1
100.00	303.15	855.0
1000.00	303.15	855.4
3000.00	303.15	857.5
5000.00	303.15	858.8
10000.00	303.15	862.3
15000.00	303.15	865.8
20000.00	303.15	869.0
25000.00	303.15	872.2
30000.00	303.15	875.3
35000.00	303.15	878.2
40000.00	303.15	881.0
50000.00	303.15	886.7
60000.00	303.15	892.0
100.00	313.15	846.7
1000.00	313.15	846.9
3000.00	313.15	848.6
5000.00	313.15	850.1
10000.00	313.15	854.0
15000.00	313.15	857.6
20000.00	313.15	861.1
25000.00	313.15	864.5
30000.00	313.15	867.7
35000.00	313.15	870.9
40000.00	313.15	873.8
50000.00	313.15	879.8
60000.00	313.15	885.1
100.00	323.15	837.7
1000.00	323.15	838.6
3000.00	323.15	840.2
5000.00	323.15	841.9
10000.00	323.15	845.9
15000.00	323.15	849.8
20000.00	323.15	853.6
25000.00	323.15	857.0
30000.00	323.15	860.4
35000.00	323.15	863.7
40000.00	323.15	866.9
50000.00	323.15	873.0
60000.00	323.15	878.8
100.00	333.15	829.0
1000.00	333.15	829.8

3000.00	333.15	831.7
5000.00	333.15	833.4
10000.00	333.15	837.6
15000.00	333.15	841.6
20000.00	333.15	845.6
25000.00	333.15	849.3
30000.00	333.15	852.8
35000.00	333.15	856.2
40000.00	333.15	859.7
50000.00	333.15	866.0
60000.00	333.15	871.9
100.00	343.15	820.0
1000.00	343.15	821.1
3000.00	343.15	823.0
5000.00	343.15	825.0
10000.00	343.15	829.4
15000.00	343.15	833.6
20000.00	343.15	837.9
25000.00	343.15	841.7
30000.00	343.15	845.5
35000.00	343.15	849.2
40000.00	343.15	852.5
50000.00	343.15	859.1
60000.00	343.15	865.0
100.00	353.15	811.3
1000.00	353.15	812.2
3000.00	353.15	814.3
5000.00	353.15	816.2
10000.00	353.15	821.0
15000.00	353.15	825.7
20000.00	353.15	829.8
25000.00	353.15	834.0
30000.00	353.15	838.0
35000.00	353.15	841.7
40000.00	353.15	845.3
50000.00	353.15	852.1
60000.00	353.15	858.5
100.00	363.15	802.2
1000.00	363.15	803.3
3000.00	363.15	805.5
5000.00	363.15	807.6
10000.00	363.15	812.4
15000.00	363.15	817.6
20000.00	363.15	821.8

25000.00	363.15	826.0
30000.00	363.15	830.2
35000.00	363.15	834.2
40000.00	363.15	838.1
50000.00	363.15	845.2
60000.00	363.15	852.0

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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
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
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