Benzene

Other names:	1,3,5-Cyclohexatriene
	Benzeen
	Benzen
	Benzin
	Benzine
	Benzol
	Benzole
	Benzolene
	Benzolo
	Bicarburet of hydrogen
	Carbon oil
	Coal naphtha
	Cyclohexatriene
	Fenzen
	Mineral naphtha
	Motor benzol
	NCI-C55276
	NSC 67315
	Phene
	Phenyl hydride
	Pyrobenzol
	Pyrobenzole
	Rcra waste number U019
	UN 1114
	[6]Annulene
Inchi:	InChI=1S/C6H6/c1-2-4-6-5-3-1/h1-6H
InchiKey:	UHOVQNZJYSORNB-UHFFFAOYSA-N
Formula:	C6H6
SMILES:	c1ccccc1
Mol. weight [g/mol]:	78.11
CAS:	71-43-2

Physical Properties

Property code	Value	Unit	Source
af	0.2120		KDB
affp	750.40	kJ/mol	NIST Webbook

affp	746.40	kJ/mol	NIST Webbook
aigt	864.82	K	KDB
basg	721.70	kJ/mol	NIST Webbook
basg	725.40	kJ/mol	NIST Webbook
dm	0.00	debye	KDB
dvisc	0.0006080	Pa×s	Densities and Viscosities of Binary Liquid Mixtures of Trichloroethylene and Tetrachloroethylene with Some Polar and Nonpolar Solvents
dvisc	0.0006040	Pa×s	Densities and Viscosities for the Ternary Systems of Methyl tert-Butyl Ether + Methanol + Benzene and Methyl tert-Butyl Ether + Methanol + Toluene and Their Sub-binary Systems at 298.15 K
fll	1.30	% in Air	KDB
flu	7.90	% in Air	KDB
fpo	262.04	K	KDB
gf	129.70	kJ/mol	KDB
gyrad	3.0040		KDB
hcg	3267.62	kJ/mol	KDB
hcn	3135.573	kJ/mol	KDB
hf	82.98	kJ/mol	KDB
hf	82.80	kJ/mol	NIST Webbook
hf	82.90 ± 0.90	kJ/mol	NIST Webbook
hf	79.90	kJ/mol	NIST Webbook
hf	82.93 ± 0.50	kJ/mol	NIST Webbook
hfl	48.95 ± 0.54	kJ/mol	NIST Webbook
hfl	49.00 ± 0.90	kJ/mol	NIST Webbook
hfl	46.00	kJ/mol	NIST Webbook
hfl	49.04 ± 0.50	kJ/mol	NIST Webbook
hfus	5.73	kJ/mol	Joback Method
hsub	44.40	kJ/mol	NIST Webbook
hvap	30.56	kJ/mol	Joback Method
ie	9.80 ± 0.10	eV	NIST Webbook
ie	9.25 ± 0.01	eV	NIST Webbook
ie	9.25 ± 0.00	eV	NIST Webbook
ie	9.25	eV	NIST Webbook
ie	9.20	eV	NIST Webbook
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ie	9.24	eV	NIST Webbook
ie	9.24 ± 0.01	eV	NIST Webbook

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ie	9.24	eV	NIST Webbook
ie	9.25	eV	NIST Webbook
ie	9.25 ± 0.01	eV	NIST Webbook
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ie	9.27	eV	NIST Webbook
ie	9.26 ± 0.06	eV	NIST Webbook
ie	9.20 ± 0.10	eV	NIST Webbook
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ie	9.24	eV	NIST Webbook
ie	9.20 ± 0.04	eV	NIST Webbook
ie	9.25 ± 0.07	eV	NIST Webbook
ie	9.20	eV	NIST Webbook
log10ws	-1.64		Aqueous Solubility Prediction Method
log10ws	-1.64		Estimated Solubility Method
logp	1.687		Crippen Method
mcvol	71.640	ml/mol	McGowan Method
nfpaf	%!d(float64=3)		KDB
nfpah	%!d(float64=2)		KDB
pc	6120.00 ± 709.28	kPa	NIST Webbook
pc	4895.00 ± 6.00	kPa	NIST Webbook
pc	4884.00 ± 20.00	kPa	NIST Webbook
pc	4900.00 ± 10.00	kPa	NIST Webbook
pc	4894.00 ± 10.00	kPa	NIST Webbook
pc	4875.75 ± 30.00	kPa	NIST Webbook
pc	4898.00 ± 2.00	kPa	NIST Webbook
pc	4897.00 ± 10.00	kPa	NIST Webbook
pc	4887.00 ± 3.00	kPa	NIST Webbook
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pc	4936.65 ± 55.15	kPa	NIST Webbook
pc	4853.47 ± 50.66	kPa	NIST Webbook
pc	4895.00	kPa	KDB
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pc	4930.90 ± 40.00	kPa	NIST Webbook
pc	4852.30 ± 53.33	kPa	NIST Webbook
pc	5020.00 ± 101.33	kPa	NIST Webbook
pc	4910.00 ± 4.90	kPa	NIST Webbook
pc	4852.27 ± 39.99	kPa	NIST Webbook
pc	4898.00 ± 10.13	kPa	NIST Webbook
rhoc	304.48 ± 3.91	kg/m3	NIST Webbook
rhoc	296.98 ± 7.81	kg/m3	NIST Webbook

rhoc	304.40 ± 3.91	kg/m3	NIST Webbook
rhoc	303.85 ± 4.69	kg/m3	NIST Webbook
rhoc	274.95 ± 1.48	kg/m3	NIST Webbook
rhoc	306.20 ± 2.34	kg/m3	NIST Webbook
rhoc	316.35 ± 4.69	kg/m3	NIST Webbook
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sl	175.30	J/mol×K	NIST Webbook
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tb	353.25	K	Vapor-Liquid Equilibrium for Binary Systems of Allyl Alcohol + Water and Allyl Alcohol + Benzene at 101.3 kPa
tb	353.27	K	Isobaric Vapor Liquid Equilibrium for Binary and Ternary Systems of Isoamyl Alcohol + Isoamyl Acetate + Dimethyl Sulfoxide at 101.33 kPa

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vols	0.00	m3/kg	PVT Relationships of Binary Mixtures of Indole with 2-Methylnaphthalene and Biphenyl at 333.15 K and Pressures up to 270 MPa
zc	0.2681520		KDB
zra	0.27		KDB

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Property code	Value	Unit	Temperature [K]	Source
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cpg	131.40 ± 1.30	J/mol×K	481.00	NIST Webbook
cpg	132.94 ± 0.08	J/mol×K	473.15	NIST Webbook
cpg	132.42	J/mol×K	471.10	NIST Webbook
cpg	126.80 ± 1.30	J/mol×K	463.00	NIST Webbook
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cpl	133.63	J/mol×K	293.15	Excess Heat Capacities of Binary and Ternary Mixtures Containing 1-Ethyl-3-methylimidazolium Tetrafluoroborate and Anilines
cpl	135.32	J/mol×K	298.15	Excess Heat Capacities of Binary and Ternary Mixtures Containing 1-Ethyl-3-methylimidazolium Tetrafluoroborate and Anilines
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cpl	135.10	J/mol×K	316.00	NIST Webbook
cpl	134.80	J/mol×K	295.15	Measurement of heat capacities of ionic liquids by differential scanning calorimetry
cpl	135.30	J/mol×K	300.00	NIST Webbook
cpl	134.60	J/mol×K	293.00	NIST Webbook
cpl	130.00	J/mol×K	298.00	NIST Webbook
cpl	135.40	J/mol×K	298.00	NIST Webbook
cpl	135.90	J/mol×K	298.00	NIST Webbook
cpl	135.90	J/mol×K	298.15	NIST Webbook
cpl	134.30	J/mol×K	298.00	NIST Webbook
cpl	135.70	J/mol×K	298.15	NIST Webbook
cpl	135.76	J/mol×K	298.15	NIST Webbook
cpl	135.76	J/mol×K	298.15	NIST Webbook
cpl	135.60	J/mol×K	298.15	NIST Webbook
cpl	135.90	J/mol×K	298.15	NIST Webbook
cpl	135.61	J/mol×K	298.15	NIST Webbook
cpl	135.90	J/mol×K	298.15	NIST Webbook
cpl	133.60	J/mol×K	293.15	NIST Webbook

cpl	135.60	J/mol×K	298.15	NIST Webbook
cpl	135.74	J/mol×K	298.15	NIST Webbook
cpl	135.70	J/mol×K	298.15	NIST Webbook
cpl	134.98	J/mol×K	298.00	NIST Webbook
cps	118.40	J/mol×K	273.00	NIST Webbook
cps	47.86	J/mol×K	90.00	NIST Webbook
cps	97.90	J/mol×K	223.90	NIST Webbook
dvisc	0.0004970	Pa×s	313.15	Density and Viscosity of Propyl Formate + Aromatic Hydrocarbons at T = (303.15, 308.15, and 313.15) K
dvisc	0.0005340	Pa×s	308.15	Physical Properties of Binary Mixtures of Ethyl Formate with Benzene, Isopropyl Benzene, Isobutyl Benzene, and Butylbenzene at (303.15, 308.15, and 313.15) K
dvisc	0.0005690	Pa×s	303.15	Physical Properties of Binary Mixtures of Ethyl Formate with Benzene, Isopropyl Benzene, Isobutyl Benzene, and Butylbenzene at (303.15, 308.15, and 313.15) K
dvisc	0.0004660	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	0.0005330	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	0.0006030	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	0.0003932	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	0.0004145	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	0.0004397	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	0.0004714	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	0.0005001	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	0.0005232	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	0.0005640	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	0.0003540	Pa×s	343.15	Densities and Viscosities of N-Formylmorpholine + Benzene, + Toluene at Different Temperatures and Atmospheric Pressures
dvisc	0.0003890	Pa×s	333.15	Densities and Viscosities of N-Formylmorpholine + Benzene, + Toluene at Different Temperatures and Atmospheric Pressures
dvisc	0.0004360	Pa×s	323.15	Densities and Viscosities of N-Formylmorpholine + Benzene, + Toluene at Different Temperatures and Atmospheric Pressures

dvisc	0.0005620	Pa×s	303.15	Densities and Viscosities of N-Formylmorpholine + Benzene, + Toluene at Different Temperatures and Atmospheric Pressures
dvisc	0.0005710	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	0.0006040	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	0.0006480	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	0.0007090	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	0.0004362	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	0.0005612	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	0.0006038	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	0.0004970	Pa×s	313.15	Physical Properties of Binary Mixtures of Ethyl Formate with Benzene, Isopropyl Benzene, Isobutyl Benzene, and Butylbenzene at (303.15, 308.15, and 313.15) K
dvisc	0.0005690	Pa×s	303.15	Density and Viscosity of Propyl Formate + Aromatic Hydrocarbons at T = (303.15, 308.15, and 313.15) K
dvisc	0.0005340	Pa×s	308.15	Density and Viscosity of Propyl Formate + Aromatic Hydrocarbons at T = (303.15, 308.15, and 313.15) K
dvisc	0.0005260	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	0.0006020	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	0.0005310	Pa×s	308.15	Densities, Viscosities, and Thermodynamic Properties of (N,N-Dimethylformamide + Benzene + Chlorobenzene) Ternary Mixtures at (298.15, 303.15, 308.15, and 313.15) K
dvisc	0.0005680	Pa×s	303.15	Densities, Viscosities, and Thermodynamic Properties of (N,N-Dimethylformamide + Benzene + Chlorobenzene) Ternary Mixtures at (298.15, 303.15, 308.15, and 313.15) K
dvisc	0.0006030	Pa×s	298.15	Densities, Viscosities, and Thermodynamic Properties of (N,N-Dimethylformamide + Benzene + Chlorobenzene) Ternary Mixtures at (298.15, 303.15, 308.15, and 313.15) K
dvisc	0.0006010	Pa×s	298.15	Densities and Viscosities of N-Formylmorpholine + Benzene, + Toluene at Different Temperatures and Atmospheric Pressures

dvisc	0.0004360	Pa×s	323.15	Densities, viscosities, and excess properties of (N-methylmorpholine + cyclohexane, + benzene, and + toluene) at T = (298.15, 303.15, 313.15, 323.15) K
dvisc	0.0004940	Pa×s	313.15	Densities, viscosities, and excess properties of (N-methylmorpholine + cyclohexane, + benzene, and + toluene) at T = (298.15, 303.15, 313.15, 323.15) K
dvisc	0.0004942	Pa×s	313.15	Viscometric and Volumetric Properties of 10 Regular Binary Systems at 308.15 K and 313.15 K
dvisc	0.0005630	Pa×s	303.15	Densities, viscosities, and excess properties of (N-methylmorpholine + cyclohexane, + benzene, and + toluene) at T = (298.15, 303.15, 313.15, 323.15) K
dvisc	0.0006010	Pa×s	298.15	Densities, viscosities, and excess properties of (N-methylmorpholine + cyclohexane, + benzene, and + toluene) at T = (298.15, 303.15, 313.15, 323.15) K
dvisc	0.0003450	Pa×s	343.15	Thermodynamic properties of binary mixtures of N-methyl-2-pyrrolidinone with cyclohexane, benzene, toluene at (303.15 to 353.15) K and atmospheric pressure

dvisc	0.0003880	Pa×s	333.15	Thermodynamic properties of binary mixtures of N-methyl-2-pyrrolidinone with cyclohexane, benzene, toluene at (303.15 to 353.15) K and atmospheric pressure
dvisc	0.0004360	Pa×s	323.15	Thermodynamic properties of binary mixtures of N-methyl-2-pyrrolidinone with cyclohexane, benzene, toluene at (303.15 to 353.15) K and atmospheric pressure
dvisc	0.0004930	Pa×s	313.15	Thermodynamic properties of binary mixtures of N-methyl-2-pyrrolidinone with cyclohexane, benzene, toluene at (303.15 to 353.15) K and atmospheric pressure
dvisc	0.0005610	Pa×s	303.15	Thermodynamic properties of binary mixtures of N-methyl-2-pyrrolidinone with cyclohexane, benzene, toluene at (303.15 to 353.15) K and atmospheric pressure
dvisc	0.0004670	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	0.0005395	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	0.0006025	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	0.0005000	Pa×s	313.15	Densities, Viscosities, and Thermodynamic Properties of (N,N-Dimethylformamide + Benzene + Chlorobenzene) Ternary Mixtures at (298.15, 303.15, 308.15, and 313.15) K
dvisc	0.0005272	Pa×s	308.15	Viscometric and Volumetric Properties of 10 Regular Binary Systems at 308.15 K and 313.15 K
dvisc	0.0004930	Pa×s	313.15	Densities and Viscosities of N-Formylmorpholine + Benzene, + Toluene at Different Temperatures and Atmospheric Pressures
hfust	9.87	kJ/mol	278.69	NIST Webbook
hfust	9.87	kJ/mol	278.70	NIST Webbook
hfust	9.30	kJ/mol	279.10	NIST Webbook
hfust	8.95	kJ/mol	278.80	NIST Webbook
hfust	9.94	kJ/mol	278.60	NIST Webbook
hfust	9.80	kJ/mol	278.60	NIST Webbook
hfust	9.88	kJ/mol	278.55	NIST Webbook
hfust	10.00	kJ/mol	278.64	NIST Webbook

hfust	9.92	kJ/mol	278.65	NIST Webbook
hsubt	45.10	kJ/mol	278.00	NIST Webbook
hsubt	53.90 ± 0.80	kJ/mol	193.00	NIST Webbook
hsubt	41.70	kJ/mol	265.50	NIST Webbook
hsubt	49.40 ± 0.40	kJ/mol	193.00	NIST Webbook
hsubt	45.20	kJ/mol	251.00	NIST Webbook
hsubt	45.60	kJ/mol	244.50	NIST Webbook
hsubt	44.10	kJ/mol	261.00	NIST Webbook
hsubt	43.10	kJ/mol	229.00	NIST Webbook
hsubt	44.60	kJ/mol	279.00	NIST Webbook
hsubt	46.60	kJ/mol	266.50	NIST Webbook
hsubt	38.00	kJ/mol	303.00	NIST Webbook
hsubt	44.60	kJ/mol	273.00	NIST Webbook
hsubt	43.30	kJ/mol	226.00	NIST Webbook
hvapt	31.50	kJ/mol	387.50	NIST Webbook
hvapt	31.40 ± 0.10	kJ/mol	343.00	NIST Webbook
hvapt	31.80 ± 0.10	kJ/mol	333.00	NIST Webbook
hvapt	32.20 ± 0.10	kJ/mol	328.00	NIST Webbook
hvapt	30.90 ± 0.10	kJ/mol	353.00	NIST Webbook
hvapt	33.00 ± 0.10	kJ/mol	313.00	NIST Webbook
hvapt	32.60 ± 0.40	kJ/mol	313.00	NIST Webbook
hvapt	30.20	kJ/mol	366.00	NIST Webbook
hvapt	30.50	kJ/mol	361.00	NIST Webbook
hvapt	30.80	kJ/mol	352.00	NIST Webbook
hvapt	30.30	kJ/mol	531.50	NIST Webbook
hvapt	30.20	kJ/mol	461.00	NIST Webbook
hvapt	32.50 ± 0.50	kJ/mol	328.00	NIST Webbook
hvapt	31.00	kJ/mol	350.00	NIST Webbook
hvapt	31.60 ± 0.40	kJ/mol	345.00	NIST Webbook
hvapt	34.10	kJ/mol	319.00	NIST Webbook
hvapt	34.10	kJ/mol	293.00	NIST Webbook
hvapt	34.10	kJ/mol	318.00	NIST Webbook
hvapt	31.20	kJ/mol	294.00	NIST Webbook
hvapt	34.10	kJ/mol	321.00	NIST Webbook
hvapt	34.40	kJ/mol	328.00	NIST Webbook
hvapt	35.30	kJ/mol	343.00	NIST Webbook
hvapt	30.76	kJ/mol	353.30	KDB
hvapt	33.25	kJ/mol	298.00	Enthalpies of Vaporization and Vapor Pressures of Some Deuterated Hydrocarbons. Liquid-Vapor Pressure Isotope Effects
hvapt	33.40	kJ/mol	335.50	NIST Webbook

hvapt	33.20	kJ/mol	325.00	NIST Webbook
hvapt	35.60	kJ/mol	285.50	NIST Webbook
hvapt	34.50	kJ/mol	310.50	NIST Webbook
hvapt	33.40	kJ/mol	307.00	NIST Webbook
hvapt	33.10	kJ/mol	314.00	NIST Webbook
hvapt	32.40	kJ/mol	324.00	NIST Webbook
hvapt	31.90	kJ/mol	332.00	NIST Webbook
hvapt	31.40	kJ/mol	344.00	NIST Webbook
hvapt	30.60	kJ/mol	353.00	NIST Webbook
hvapt	33.50	kJ/mol	336.50	NIST Webbook
hvapt	30.72	kJ/mol	353.30	NIST Webbook
psub	1.23	kPa	260.68	Recommended sublimation pressure and enthalpy of benzene
psub	1.23	kPa	260.68	Recommended sublimation pressure and enthalpy of benzene
psub	1.23	kPa	260.68	Recommended sublimation pressure and enthalpy of benzene
psub	1.00	kPa	258.16	Recommended sublimation pressure and enthalpy of benzene
psub	1.00	kPa	258.16	Recommended sublimation pressure and enthalpy of benzene
psub	1.00	kPa	258.16	Recommended sublimation pressure and enthalpy of benzene
psub	0.81	kPa	255.67	Recommended sublimation pressure and enthalpy of benzene
psub	0.81	kPa	255.67	Recommended sublimation pressure and enthalpy of benzene
psub	0.65	kPa	253.17	Recommended sublimation pressure and enthalpy of benzene

psub	0.65	kPa	253.17	Recommended sublimation pressure and enthalpy of benzene
psub	0.65	kPa	253.17	Recommended sublimation pressure and enthalpy of benzene
psub	0.53	kPa	250.68	Recommended sublimation pressure and enthalpy of benzene
psub	0.10	kPa	233.20	Recommended sublimation pressure and enthalpy of benzene
psub	0.10	kPa	233.20	Recommended sublimation pressure and enthalpy of benzene
psub	0.10	kPa	233.20	Recommended sublimation pressure and enthalpy of benzene
psub	0.13	kPa	235.70	Recommended sublimation pressure and enthalpy of benzene
psub	0.13	kPa	235.70	Recommended sublimation pressure and enthalpy of benzene
psub	0.13	kPa	235.70	Recommended sublimation pressure and enthalpy of benzene
psub	0.16	kPa	238.21	Recommended sublimation pressure and enthalpy of benzene
psub	0.16	kPa	238.21	Recommended sublimation pressure and enthalpy of benzene
psub	0.16	kPa	238.21	Recommended sublimation pressure and enthalpy of benzene

psub	0.21	kPa	240.70	Recommended sublimation pressure and enthalpy of benzene
psub	0.21	kPa	240.70	Recommended sublimation pressure and enthalpy of benzene
psub	0.21	kPa	240.70	Recommended sublimation pressure and enthalpy of benzene
psub	0.27	kPa	243.20	Recommended sublimation pressure and enthalpy of benzene
psub	0.27	kPa	243.20	Recommended sublimation pressure and enthalpy of benzene
psub	0.27	kPa	243.20	Recommended sublimation pressure and enthalpy of benzene
psub	0.34	kPa	245.68	Recommended sublimation pressure and enthalpy of benzene
psub	0.34	kPa	245.68	Recommended sublimation pressure and enthalpy of benzene
psub	0.34	kPa	245.68	Recommended sublimation pressure and enthalpy of benzene
psub	0.42	kPa	248.18	Recommended sublimation pressure and enthalpy of benzene
psub	0.42	kPa	248.18	Recommended sublimation pressure and enthalpy of benzene
psub	0.42	kPa	248.18	Recommended sublimation pressure and enthalpy of benzene

psub	0.53	kPa	250.68	Recommended sublimation pressure and enthalpy of benzene
psub	0.53	kPa	250.68	Recommended sublimation pressure and enthalpy of benzene
psub	0.81	kPa	255.67	Recommended sublimation pressure and enthalpy of benzene
pvap	12.70	kPa	298.15	Thermodynamic properties of mixtures containing ionic liquids Vapor pressures and activity coefficients of n-alcohols and benzene in binary mixtures with 1-methyl-3-butyl-imidazolium bis(trifluoromethyl-sulfonyl) imide
pvap	15.92	kPa	303.15	Thermodynamic properties of mixtures containing ionic liquids Vapor pressures and activity coefficients of n-alcohols and benzene in binary mixtures with 1-methyl-3-butyl-imidazolium bis(trifluoromethyl-sulfonyl) imide
pvap	19.66	kPa	308.15	Thermodynamic properties of mixtures containing ionic liquids Vapor pressures and activity coefficients of n-alcohols and benzene in binary mixtures with 1-methyl-3-butyl-imidazolium bis(trifluoromethyl-sulfonyl) imide

pvap	24.33	kPa	313.15	Thermodynamic properties of mixtures containing ionic liquids Vapor pressures and activity coefficients of n-alcohols and benzene in binary mixtures with 1-methyl-3-butyl-imidazolium bis(trifluoromethyl-sulfonyl) imide
pvap	40.00	kPa	325.60	Determination and correlation of vapor liquid equilibrium for binary systems consisting of close-boiling components
pvap	53.33	kPa	333.56	Determination and correlation of vapor liquid equilibrium for binary systems consisting of close-boiling components
pvap	66.66	kPa	340.06	Determination and correlation of vapor liquid equilibrium for binary systems consisting of close-boiling components
pvap	79.99	kPa	345.61	Determination and correlation of vapor liquid equilibrium for binary systems consisting of close-boiling components
pvap	93.32	kPa	350.50	Determination and correlation of vapor liquid equilibrium for binary systems consisting of close-boiling components

pvap	52.45	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	100.00	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	101.30	kPa	353.30	Isobaric vapor-liquid equilibrium for the binary mixtures of nonane with cyclohexane, toluene, m-xylene, or p-xylene at 101.3 kPa	
pvap	62.10	kPa	338.15	Phase equilibria and excess molar enthalpies study of the binary systems (pyrrole + hydrocarbon, or an alcohol) and modeling	
pvap	101.33	kPa	353.26	Isobaric vapor-liquid equilibrium for binary system of cinnamaldehyde + benzaldehyde at 10, 20 and 30 kPa	
pvap	9.98	kPa	293.15	Vapor-liquid equilibrium for the binary mixtures of dipropylene glycol with aromatic hydrocarbons: Experimental and regression	

pvap	12.64	kPa	298.15	Vapor-liquid equilibrium for the binary mixtures of dipropylene glycol with aromatic hydrocarbons: Experimental and regression
pvap	15.85	kPa	303.15	Vapor-liquid equilibrium for the binary mixtures of dipropylene glycol with aromatic hydrocarbons: Experimental and regression
pvap	36.24	kPa	323.15	Total vapour pressure and excess Gibbs energy for binary mixtures of 1,1,2,2-tetrachlorethane or tetrachloroethene with benzene at nine temperatures
pvap	19.71	kPa	308.15	Vapor-liquid equilibrium for the binary mixtures of dipropylene glycol with aromatic hydrocarbons: Experimental and regression
pvap	24.30	kPa	313.15	Vapor-liquid equilibrium for the binary mixtures of dipropylene glycol with aromatic hydrocarbons: Experimental and regression
pvap	29.73	kPa	318.15	Vapor-liquid equilibrium for the binary mixtures of dipropylene glycol with aromatic hydrocarbons: Experimental and regression

pvap	36.09	kPa	323.15	Vapor-liquid equilibrium for the binary mixtures of dipropylene glycol with aromatic hydrocarbons: Experimental and regression
pvap	43.51	kPa	328.15	Vapor-liquid equilibrium for the binary mixtures of dipropylene glycol with aromatic hydrocarbons: Experimental and regression
pvap	52.11	kPa	333.15	Vapor-liquid equilibrium for the binary mixtures of dipropylene glycol with aromatic hydrocarbons: Experimental and regression
pvap	62.01	kPa	338.15	Vapor-liquid equilibrium for the binary mixtures of dipropylene glycol with aromatic hydrocarbons: Experimental and regression
pvap	73.35	kPa	343.15	Vapor-liquid equilibrium for the binary mixtures of dipropylene glycol with aromatic hydrocarbons: Experimental and regression
pvap	86.27	kPa	348.15	Vapor-liquid equilibrium for the binary mixtures of dipropylene glycol with aromatic hydrocarbons: Experimental and regression

pvap	100.91	kPa	353.15	Vapor-liquid equilibrium for the binary mixtures of dipropylene glycol with aromatic hydrocarbons: Experimental and regression
pvap	101.33	kPa	353.15	Phase equilibria of three binary systems containing 2,5-dimethylthiophene and 2-ethylthiophene in hydrocarbons
pvap	205.00	kPa	378.35	Quantitative comparison between predicted and experimental binary n-alkane p benzene phase behaviors using cubic and PC-SAFT EOS
pvap	366.00	kPa	401.25	Quantitative comparison between predicted and experimental binary n-alkane p benzene phase behaviors using cubic and PC-SAFT EOS
pvap	572.00	kPa	421.85	Quantitative comparison between predicted and experimental binary n-alkane p benzene phase behaviors using cubic and PC-SAFT EOS
pvap	778.00	kPa	437.45	Quantitative comparison between predicted and experimental binary n-alkane p benzene phase behaviors using cubic and PC-SAFT EOS

pvap	1173.00	kPa	460.35	Quantitative comparison between predicted and experimental binary n-alkane p benzene phase behaviors using cubic and PC-SAFT EOS
pvap	1622.00	kPa	480.45	Quantitative comparison between predicted and experimental binary n-alkane p benzene phase behaviors using cubic and PC-SAFT EOS
pvap	2183.00	kPa	500.15	Quantitative comparison between predicted and experimental binary n-alkane p benzene phase behaviors using cubic and PC-SAFT EOS
pvap	2877.00	kPa	520.05	Quantitative comparison between predicted and experimental binary n-alkane p benzene phase behaviors using cubic and PC-SAFT EOS
pvap	12.71	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	39.52	kPa	325.60	Extension of the DSC method to measuring vapor pressures of narrow boiling range oil cuts
pvap	49.45	kPa	331.70	Extension of the DSC method to measuring vapor pressures of narrow boiling range oil cuts

pvap	69.20	kPa	341.70	Extension of the DSC method to measuring vapor pressures of narrow boiling range oil cuts
pvap	86.40	kPa	348.15	Phase equilibria and excess molar enthalpies study of the binary systems (pyrrole + hydrocarbon, or an alcohol) and modeling
pvap	101.60	kPa	353.60	Extension of the DSC method to measuring vapor pressures of narrow boiling range oil cuts
pvap	247.52	kPa	385.30	Extension of the DSC method to measuring vapor pressures of narrow boiling range oil cuts
pvap	499.10	kPa	415.80	Extension of the DSC method to measuring vapor pressures of narrow boiling range oil cuts
pvap	101.33	kPa	353.25	Vapor Liquid Equilibrium Data for Binary Systems of N,N-Dimethylacetamide with Cyclohexene, Cyclohexane, and Benzene Separately at Atmospheric Pressure
pvap	15.63	kPa	303.15	Vapor Pressure Measurements for Binary Mixtures Containing Ionic Liquid and Predictions by the Conductor-like Screening Model for Real Solvents

pvap	24.45	kPa	313.15	Vapor Pressure Measurements for Binary Mixtures Containing Ionic Liquid and Predictions by the Conductor-like Screening Model for Real Solvents
pvap	36.60	kPa	323.15	Vapor Pressure Measurements for Binary Mixtures Containing Ionic Liquid and Predictions by the Conductor-like Screening Model for Real Solvents
pvap	53.12	kPa	333.15	Vapor Pressure Measurements for Binary Mixtures Containing Ionic Liquid and Predictions by the Conductor-like Screening Model for Real Solvents
pvap	74.82	kPa	343.15	Vapor Pressure Measurements for Binary Mixtures Containing Ionic Liquid and Predictions by the Conductor-like Screening Model for Real Solvents
pvap	101.30	kPa	353.25	Vapor-Liquid Equilibrium for Binary Systems of Allyl Alcohol + Water and Allyl Alcohol + Benzene at 101.3 kPa
pvap	43.65	kPa	328.15	Vapor Liquid Equilibrium and Excess Enthalpy Data for Systems Containing N,N-Dimethylacetamide

pvap	101.33	kPa	353.27	Isobaric Vapor Liquid Equilibrium for Binary and Ternary Systems of Isoamyl Alcohol + Isoamyl Acetate + Dimethyl Sulfoxide at 101.33 kPa
pvap	137.28	kPa	363.15	Vapor-Liquid Equilibria for Four Binary Systems at 363.15 K: N-Methylformamide + Hexane, + Benzene, + Chlorobenzene, and + Acetonitrile
pvap	24.35	kPa	313.14	Vapor-Liquid Equilibrium for Benzene + 2-Methylpentane and Allyl Alcohol + 1-Propanol
pvap	36.15	kPa	323.14	Vapor-Liquid Equilibrium for Benzene + 2-Methylpentane and Allyl Alcohol + 1-Propanol
pvap	52.17	kPa	333.13	Vapor-Liquid Equilibrium for Benzene + 2-Methylpentane and Allyl Alcohol + 1-Propanol
pvap	379.30	kPa	403.15	Isothermal Vapor-Liquid Equilibrium for Methanol and 2,3-Dimethyl-1-butene at 343.06 K, 353.27 K, 363.19 K, and 372.90 K
pvap	35.47	kPa	323.15	Isothermal Phase Equilibria and Excess Molar Enthalpies for Binary Systems with Dimethyl Ether at 323.15 K

pvap	6.08	kPa	283.15	Total vapour pressure and excess Gibbs energy for binary mixtures of 1,1,2,2-tetrachlorethane or tetrachloroethene with benzene at nine temperatures
pvap	29.85	kPa	318.15	Total vapour pressure and excess Gibbs energy for binary mixtures of 1,1,2,2-tetrachlorethane or tetrachloroethene with benzene at nine temperatures
pvap	24.40	kPa	313.15	Total vapour pressure and excess Gibbs energy for binary mixtures of 1,1,2,2-tetrachlorethane or tetrachloroethene with benzene at nine temperatures
pvap	19.81	kPa	308.15	Total vapour pressure and excess Gibbs energy for binary mixtures of 1,1,2,2-tetrachlorethane or tetrachloroethene with benzene at nine temperatures
pvap	750.14	kPa	435.40	Extension of the DSC method to measuring vapor pressures of narrow boiling range oil cuts
pvap	15.93	kPa	303.15	Total vapour pressure and excess Gibbs energy for binary mixtures of 1,1,2,2-tetrachlorethane or tetrachloroethene with benzene at nine temperatures

pvap	12.69	kPa	298.15	Total vapour pressure and excess Gibbs energy for binary mixtures of 1,1,2,2-tetrachlorethane or tetrachloroethene with benzene at nine temperatures
pvap	10.03	kPa	293.15	Total vapour pressure and excess Gibbs energy for binary mixtures of 1,1,2,2-tetrachlorethane or tetrachloroethene with benzene at nine temperatures
pvap	7.85	kPa	288.15	Total vapour pressure and excess Gibbs energy for binary mixtures of 1,1,2,2-tetrachlorethane or tetrachloroethene with benzene at nine temperatures
rfi	1.50090		293.15	Experimental densities and excess volumes for binary mixtures of (dimethyl sulfoxide + an aromatic hydrocarbon) at temperatures from (293.15 to 353.15) K at atmospheric pressure
rfi	1.49790		298.15	Densities and Refractive Indices of Binary Mixtures of Benzene with Triethylamine and Tributylamine at Different Temperatures

rfi	1.49620	303.15	Densities and Refractive Indices of Binary Mixtures of Benzene with Triethylamine and Tributylamine at Different Temperatures
rfi	1.49440	308.15	Densities and Refractive Indices of Binary Mixtures of Benzene with Triethylamine and Tributylamine at Different Temperatures
rfi	1.49290	313.15	Densities and Refractive Indices of Binary Mixtures of Benzene with Triethylamine and Tributylamine at Different Temperatures
rfi	1.49110	318.15	Densities and Refractive Indices of Binary Mixtures of Benzene with Triethylamine and Tributylamine at Different Temperatures
rfi	1.49620	303.15	Volumetric, Viscometric, Ultrasonic, and Refractive Index Properties of Liquid Mixtures of Benzene with Industrially Important Monomers at Different Temperatures
rfi	1.49440	308.15	Volumetric, Viscometric, Ultrasonic, and Refractive Index Properties of Liquid Mixtures of Benzene with Industrially Important Monomers at Different Temperatures

rfi	1.49290	313.15	Volumetric, Viscometric, Ultrasonic, and Refractive Index Properties of Liquid Mixtures of Benzene with Industrially Important Monomers at Different Temperatures	
rfi	1.49210	308.15	Topological and thermodynamic investigations of molecular interactions in binary mixtures: Molar excess volumes and molar excess enthalpies	
rfi	1.38820	293.10	Liquid liquid equilibria of methylcyclohexane benzene N-formylmorpholine at several temperatures	
rfi	1.49810	298.15	Separation of aromatic hydrocarbons from alkanes using ammonium ionic liquid C2NTf2 at T = 298.15K	
rfi	1.49785	298.15	Isothermal vapor liquid equilibrium at 323.15K and excess molar volumes and refractive indices at 298.15K for the ternary system propyl vinyl ether + 1-propanol + benzene and its binary sub-systems	

rfi	1.49764	298.15	Isothermal vapor-liquid equilibrium at T = 333.15 K and excess volumes and molar refractivity deviation at T = 298.15 K for the ternary mixtures {di-methyl carbonate (DMC) + ethanol + benzene} and {DMC+ ethanol + toluene}	
rfi	1.49774	298.15	Experimental data, correlation and prediction of the extraction of benzene from cyclic hydrocarbons using [Epy][ESO4] ionic liquid	
rfi	1.50090	293.15	Effect of temperature on the volumetric properties of (cyclohexanone + an aromatic hydrocarbon)	
rfi	1.50090	293.15	A study of densities and volumetric properties of binary mixtures containing nitrobenzene at T = (293.15 to 353.15) K	
rfi	1.49790	298.15	Excess Molar Volumes of (propiophenone + benzene, or toluene, or ethylbenzene, or butylbenzene) at temperatures 298.15 K and 328.15 K	
rfi	1.49792	298.15	KDB	
rfi	1.50090	298.15	The volumetric properties of (1,2-propanediol carbonate + benzene, or toluene, or styrene) binary mixtures at temperatures from T = 293.15 K to T = 353.15 K	

rfi	1.49692	298.15	Azeotropic behaviour of (benzene + cyclohexane + chlorobenzene) ternary mixture using chlorobenzene as entrainer at 101.3 kPa	
rfi	1.49710	298.15	Excess and deviation properties for the binary mixtures of methylcyclohexane with benzene, toluene, p-xylene, mesitylene, and anisole at T = (298.15, 303.15, and 308.15) K	
rfi	1.49360	303.15	Excess and deviation properties for the binary mixtures of methylcyclohexane with benzene, toluene, p-xylene, mesitylene, and anisole at T = (298.15, 303.15, and 308.15) K	
rfi	1.49030	308.15	Excess and deviation properties for the binary mixtures of methylcyclohexane with benzene, toluene, p-xylene, mesitylene, and anisole at T = (298.15, 303.15, and 308.15) K	
rfi	1.50500	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	1.49790	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	1.48490	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	1.50090	293.10	Densities and volumetric properties of N-methyl-2-pyrrolidone with aromatic hydrocarbon at different temperature
rfi	1.49540	303.15	Study of activity coefficients for sodium iodide in (methanol + benzene) system by (vapour + liquid) equilibrium measurements
rfi	1.50090	298.15	Densities and excess volumes of binary mixtures of N,N-dimethylformamide with aromatic hydrocarbon at different temperature
rfi	1.50090	293.10	A study on densities and excess volumes in the (c-butyrolactone + aromatic hydrocarbon) system at various temperatures

rfi	1.50240	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	1.50090	298.15	Effects of the presence of ethylacetate or benzene on the densities and volumetric properties of mixture (styrene + N,N-dimethylformamide)
rfi	1.49790	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	1.49790	298.15	p, Vm, T) measurements of (octane + benzene) at temperatures from (298.15 to 328.15) K and at pressures up to 40 MPa
rfi	1.49774	298.15	Thermophysical properties of the binary mixtures of 2-methyl-tetrahydrofuran with benzene and halobenzenes
rfi	1.49900	298.15	Liquid-liquid equilibria for mixtures of (Furfural + an Aromatic hydrocarbon + an alkane) at T=298.15 K

rfi	1.50150	293.15	Infinite Dilution Activity Coefficients of Hydrocarbons in Triethylene Glycol and Tetraethylene Glycol
rfi	1.50110	293.15	Densities, Viscosities, and Refractive Indices of Binary Mixtures of Anisole with Benzene, Methylbenzene, Ethylbenzene, Propylbenzene, and Butylbenzene at (293.15 and 303.15) K
rfi	1.49774	298.15	Effect of the Chain Length on the Aromatic Ring in the Separation of Aromatic Compounds from Methylcyclohexane Using the Ionic Liquid 1-Ethyl-3-methylpyridinium Ethylsulfate
rfi	1.49774	298.15	Density, Speed of Sound, and Refractive Index of the Binary Systems Cyclohexane (1) or Methylcyclohexane (1) or Cyclo-octane (1) with Benzene (2), Toluene (2), and Ethylbenzene (2) at Two Temperatures
rfi	1.50765	283.15	Density, Speed of Sound, and Refractive Index of the Binary Systems Cyclohexane (1) or Methylcyclohexane (1) or Cyclo-octane (1) with Benzene (2), Toluene (2), and Ethylbenzene (2) at Two Temperatures

rfi	1.50110	293.15	Solubilities of 3,9-Dimethyl-3,9-dioxide-2,4,8,10-tetraoxa-3,9-diphosphaspiro[5.5]undec in Selected Solvents
rfi	1.49470	303.15	Densities, Viscosities, and Refractive Indices of Binary Mixtures of Anisole with Benzene, Methylbenzene, Ethylbenzene, Propylbenzene, and Butylbenzene at (293.15 and 303.15) K
rfi	1.50110	293.15	Solubilities of Methyldiphenylphosphine Oxide in Selected Solvents
rfi	1.49765	298.15	Isobaric Vapor-Liquid Equilibria for the Binary Systems Benzene + Methyl Ethanoate, Benzene + Butyl Ethanoate, and Benzene + Methyl Heptanoate at 101.31kPa
rfi	1.50110	293.15	Solubilities of Triphenylphosphine Oxide in Selected Solvents
rfi	1.48560	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	1.48870	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	1.49180	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	1.49490	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	1.49800	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	1.50110	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	1.48560	318.15	Refractive Indices of Binary Mixtures of Tetrahydrofuran with Aromatic Hydrocarbon at Temperatures from (288.15 to 318.15) K
rfi	1.48870	313.15	Refractive Indices of Binary Mixtures of Tetrahydrofuran with Aromatic Hydrocarbon at Temperatures from (288.15 to 318.15) K
rfi	1.49180	308.15	Refractive Indices of Binary Mixtures of Tetrahydrofuran with Aromatic Hydrocarbon at Temperatures from (288.15 to 318.15) K
rfi	1.49490	303.15	Refractive Indices of Binary Mixtures of Tetrahydrofuran with Aromatic Hydrocarbon at Temperatures from (288.15 to 318.15) K
rfi	1.49800	298.15	Refractive Indices of Binary Mixtures of Tetrahydrofuran with Aromatic Hydrocarbon at Temperatures from (288.15 to 318.15) K

rfi	1.50110	293.15	Refractive Indices of Binary Mixtures of Tetrahydrofuran with Aromatic Hydrocarbon at Temperatures from (288.15 to 318.15) K
rfi	1.50420	288.15	Refractive Indices of Binary Mixtures of Tetrahydrofuran with Aromatic Hydrocarbon at Temperatures from (288.15 to 318.15) K
rfi	1.49790	298.15	Volumetric, Viscometric, Ultrasonic, and Refractive Index Properties of Liquid Mixtures of Benzene with Industrially Important Monomers at Different Temperatures
rfi	1.49740	298.15	Experimental Isobaric Vapor-Liquid Equilibria of Binary Mixtures of 2,2,2-Trifluoroethanol with Benzene or Toluene
rfi	1.50110	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	1.49764	298.15	Isothermal Vapor-Liquid Equilibrium at 333.15 K, Density, and Refractive Index at 298.15 K for the Ternary Mixture of Dibutyl Ether + Ethanol + Benzene and Binary Subsystems
rfi	1.49774	298.15	Liquid Liquid Extraction of Aromatic Compounds from Cycloalkanes Using 1-Butyl-3-methylimidazolium Methylsulfate Ionic Liquid
rfi	1.49774	298.15	Extraction of Benzene from Aliphatic Compounds Using Commercial Ionic Liquids as Solvents: Study of the Liquid Liquid Equilibrium at T = 298.15 K
rfi	1.49774	298.15	Liquid-Liquid Equilibria of the Ternary Systems of Alkane + Aromatic + 1-Ethylpyridinium Ethylsulfate Ionic Liquid at T = (283.15 and 298.15) K
rfi	1.49774	298.15	Liquid Extraction of Benzene from Its Mixtures Using 1-Ethyl-3-methylimidazolium Ethylsulfate as a Solvent
rfi	1.50110	293.15	Solubilities of Phosphorus-Containing Compounds in Selected Solvents
rfi	1.49774	298.15	Separation of Benzene from Linear Alkanes (C6-C9) Using 1-Ethyl-3-Methylimidazolium Ethylsulfate at T = 298.15 K

rfi	1.49720		298.20	Liquid-Liquid Equilibria for Ternary Mixtures (an Ionic Liquid + Benzene +Heptane or Hexadecane) at T) 298.2 K and Atmospheric Pressure
rfi	1.50420		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
rhol	878.23	kg/m3	293.15	Densities of Ionic Liquids, 1-Butyl-3-methylimidazolium Hexafluorophosphate and 1-Butyl-3-methylimidazolium Tetrafluoroborate, with Benzene, Acetonitrile, and 1-Propanol at T = (293.15 to 343.15) K
rhol	824.70	kg/m3	343.15	Densities and volumetric properties of (N-acetylmorpholine + aromatic hydrocarbon) binary mixtures from T = (293.15 to 343.15) K
rhol	835.70	kg/m3	333.15	Densities and volumetric properties of (N-acetylmorpholine + aromatic hydrocarbon) binary mixtures from T = (293.15 to 343.15) K

rhol	846.50	kg/m3	323.15	Densities and volumetric properties of (N-acetylmorpholine + aromatic hydrocarbon) binary mixtures from T = (293.15 to 343.15) K
rhol	857.40	kg/m3	313.15	Densities and volumetric properties of (N-acetylmorpholine + aromatic hydrocarbon) binary mixtures from T = (293.15 to 343.15) K
rhol	868.20	kg/m3	303.15	Densities and volumetric properties of (N-acetylmorpholine + aromatic hydrocarbon) binary mixtures from T = (293.15 to 343.15) K
rhol	874.16	kg/m3	298.15	Experimental and theoretical study of surface tension of binary mixtures of (n-alkyl acetates + heptane, benzene, and toluene)
rhol	883.90	kg/m3	288.15	Volumetric properties of binary liquid mixtures: Application of the Prigogine Flory Patterson theory to excess molar volumes of dichloromethane with benzene or toluene
rhol	876.85	kg/m3	293.15	Volumetric properties of binary liquid mixtures: Application of the Prigogine Flory Patterson theory to excess molar volumes of dichloromethane with benzene or toluene

rhol	873.36	kg/m3	298.15	Volumetric properties of binary liquid mixtures: Application of the Prigogine Flory Patterson theory to excess molar volumes of dichloromethane with benzene or toluene
rhol	868.71	kg/m3	303.15	Volumetric properties of binary liquid mixtures: Application of the Prigogine Flory Patterson theory to excess molar volumes of dichloromethane with benzene or toluene
rhol	873.57	kg/m3	298.15	Evaluation of ionic liquids as solvent for aromatic extraction: Experimental, correlation and COSMO-RS predictions
rhol	873.45	kg/m3	298.15	Experimental and predicted data of excess molar enthalpies and excess molar volumes for the ternary system (1,3-dichlorobenzene + benzene + 1-chlorohexane) at T = 298.15 K
rhol	873.57	kg/m3	298.15	(Liquid + liquid) equilibrium at T = 298.15 K for ternary mixtures of alkane + aromatic compounds + imidazolium-based ionic liquids
rhol	878.89	kg/m3	293.15	Excess heat capacities of mixtures containing 1-methylpyrrolidin-2-one, chlorotoluenes and benzene

rhol	873.54	kg/m3	298.15	Excess heat capacities of mixtures containing 1-methylpyrrolidin-2-one, chlorotoluenes and benzene
rhol	868.20	kg/m3	303.15	Excess heat capacities of mixtures containing 1-methylpyrrolidin-2-one, chlorotoluenes and benzene
rhol	873.71	kg/m3	298.15	Determination and correlation of (liquid + liquid) equilibria of ternary and quaternary systems with octane, decane, benzene and [BMpyr][DCA] at T = 298.15 K and atmospheric pressure
rhol	878.87	kg/m3	293.15	Theoretical and experimental study on volumetric and electromagnetic properties of binary systems consisting of 1,2-dichloroethane with benzene and its derivatives at T = (293.15 to 333.15) K
rhol	868.20	kg/m3	303.15	Theoretical and experimental study on volumetric and electromagnetic properties of binary systems consisting of 1,2-dichloroethane with benzene and its derivatives at T = (293.15 to 333.15) K

rhol	873.57	kg/m3	298.15	Measurements and equation-of-state modelling of thermodynamic properties of binary mixtures of 1-butyl-1-methylpyrrolidinium tetracyanoborate ionic liquid with molecular compounds
rhol	857.44	kg/m3	313.15	Theoretical and experimental study on volumetric and electromagnetic properties of binary systems consisting of 1,2-dichloroethane with benzene and its derivatives at T = (293.15 to 333.15) K
rhol	846.62	kg/m3	323.15	Theoretical and experimental study on volumetric and electromagnetic properties of binary systems consisting of 1,2-dichloroethane with benzene and its derivatives at T = (293.15 to 333.15) K
rhol	835.71	kg/m3	333.15	Theoretical and experimental study on volumetric and electromagnetic properties of binary systems consisting of 1,2-dichloroethane with benzene and its derivatives at T = (293.15 to 333.15) K
rhol	868.30	kg/m3	303.15	Studies of partial molar volumes of alkylamine in non-electrolyte solvents I. Alkylamines in hydrocarbons at 303.15 and 313.15K

rhol	857.59	kg/m3	313.15	Studies of partial molar volumes of alkylamine in non-electrolyte solvents I. Alkylamines in hydrocarbons at 303.15 and 313.15K
rhol	868.42	kg/m3	303.15	Volumetric and transport properties of ternary mixtures containing 1-propanol + ethyl ethanoate + cyclohexane or benzene at 303.15 K: Experimental data, correlation and prediction by ERAS model
rhol	873.64	kg/m3	298.15	Excess molar volumes and isentropic compressibilities changes of mixing of tetrahydropyran + benzene + cyclo or n-alkanes ternary mixtures at 308.15 K
rhol	878.93	kg/m3	293.15	Density and Surface Tension of Binary Mixtures of 2,2,4-Trimethylpentane + n-Heptane, 2,2,4-Trimethylpentane + n-Octane, Ethyl Acetate + Benzene, and Butanenitrile + Benzene from (293.15 to 323.15) K
rhol	873.62	kg/m3	298.15	Density and Surface Tension of Binary Mixtures of 2,2,4-Trimethylpentane + n-Heptane, 2,2,4-Trimethylpentane + n-Octane, Ethyl Acetate + Benzene, and Butanenitrile + Benzene from (293.15 to 323.15) K

rhol	868.29	kg/m3	303.15	Density and Surface Tension of Binary Mixtures of 2,2,4-Trimethylpentane + n-Heptane, 2,2,4-Trimethylpentane + n-Octane, Ethyl Acetate + Benzene, and Butanenitrile + Benzene from (293.15 to 323.15) K
rhol	862.94	kg/m3	308.15	Density and Surface Tension of Binary Mixtures of 2,2,4-Trimethylpentane + n-Heptane, 2,2,4-Trimethylpentane + n-Octane, Ethyl Acetate + Benzene, and Butanenitrile + Benzene from (293.15 to 323.15) K
rhol	857.58	kg/m3	313.15	Density and Surface Tension of Binary Mixtures of 2,2,4-Trimethylpentane + n-Heptane, 2,2,4-Trimethylpentane + n-Octane, Ethyl Acetate + Benzene, and Butanenitrile + Benzene from (293.15 to 323.15) K
rhol	852.19	kg/m3	318.15	Density and Surface Tension of Binary Mixtures of 2,2,4-Trimethylpentane + n-Heptane, 2,2,4-Trimethylpentane + n-Octane, Ethyl Acetate + Benzene, and Butanenitrile + Benzene from (293.15 to 323.15) K

rhol	846.77	kg/m3	323.15	Density and Surface Tension of Binary Mixtures of 2,2,4-Trimethylpentane + n-Heptane, 2,2,4-Trimethylpentane + n-Octane, Ethyl Acetate + Benzene, and Butanenitrile + Benzene from (293.15 to 323.15) K
rhol	874.00	kg/m3	298.15	Liquid Liquid Equilibrium data for the ternary systems of Water, Isopropyl alcohol, and selected entrainers
rhol	873.45	kg/m3	298.10	Excess Molar Enthalpies of Propyl Propanoate + 1-Hexanol + Benzene at the Temperatures of 25 :C and 35 :C
rhol	873.64	kg/m3	298.15	Vapor-Liquid Equilibria and Excess Enthalpies for Binary Systems of Dimethoxymethane with Hydrocarbons
rhol	876.53	kg/m3	293.20	Isobaric Vapor-Liquid Equilibria for Binary Mixtures of 1,2-Dibromoethane with Benzene, Toluene, Fluorobenzene, and Bromobenzene at Atmospheric Pressure
rhol	873.58	kg/m3	298.15	Volumetric Properties of the Binary Methanol + Chloroform and Ternary Methanol + Chloroform + Benzene Mixtures at (288.15, 293.15, 298.15, 303.15, 308.15, and 313.15) K

rhol	875.47	kg/m3	298.15	Calorimetric Study of Nitrile Group-Solvent Interactions and Comparison with Dispersive Quasi-Chemical (DISQUAC) Predictions
rhol	868.10	kg/m3	303.15	Viscometric Behavior of Binary Mixtures of Butan-2-one with Benzene at T = (303.15, 313.15, and 323.15) K
rhol	857.40	kg/m3	313.15	Viscometric Behavior of Binary Mixtures of Butan-2-one with Benzene at T = (303.15, 313.15, and 323.15) K
rhol	846.60	kg/m3	323.15	Viscometric Behavior of Binary Mixtures of Butan-2-one with Benzene at T = (303.15, 313.15, and 323.15) K
rhol	873.57	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	873.54	kg/m3	298.15	Thermodynamic Properties of Ternary Liquid Mixtures Containing o-Chlorotoluene: Excess Molar Volumes and Excess Isentropic Compressibilities
rhol	868.20	kg/m3	303.15	Thermodynamic Properties of Ternary Liquid Mixtures Containing o-Chlorotoluene: Excess Molar Volumes and Excess Isentropic Compressibilities

rhol	862.84	kg/m3	308.15	Thermodynamic Properties of Ternary Liquid Mixtures Containing o-Chlorotoluene: Excess Molar Volumes and Excess Isentropic Compressibilities
rhol	873.58	kg/m3	298.15	Excess Enthalpies of Chloroalkylbenzene + Alkylbenzene Mixtures
rhol	873.11	kg/m3	298.15	Densities of Ionic Liquids, 1-Butyl-3-methylimidazolium Hexafluorophosphate and 1-Butyl-3-methylimidazolium Tetrafluoroborate, with Benzene, Acetonitrile, and 1-Propanol at T = (293.15 to 343.15) K
rhol	867.59	kg/m3	303.15	Densities of Ionic Liquids, 1-Butyl-3-methylimidazolium Hexafluorophosphate and 1-Butyl-3-methylimidazolium Tetrafluoroborate, with Benzene, Acetonitrile, and 1-Propanol at T = (293.15 to 343.15) K
rhol	862.21	kg/m3	308.15	Densities of Ionic Liquids, 1-Butyl-3-methylimidazolium Hexafluorophosphate and 1-Butyl-3-methylimidazolium Tetrafluoroborate, with Benzene, Acetonitrile, and 1-Propanol at T = (293.15 to 343.15) K
rhol	862.87	kg/m3	308.15	Effect of temperature on the excess molar volumes of some alcohol + aromatic mixtures and modelling by cubic EOS mixing rules

rhol	856.82	kg/m3	313.15	Densities of Ionic Liquids, 1-Butyl-3-methylimidazolium Hexafluorophosphate and 1-Butyl-3-methylimidazolium Tetrafluoroborate, with Benzene, Acetonitrile, and 1-Propanol at T = (293.15 to 343.15) K
rhol	846.05	kg/m3	323.15	Densities of Ionic Liquids, 1-Butyl-3-methylimidazolium Hexafluorophosphate and 1-Butyl-3-methylimidazolium Tetrafluoroborate, with Benzene, Acetonitrile, and 1-Propanol at T = (293.15 to 343.15) K
rhol	835.76	kg/m3	333.15	Densities of Ionic Liquids, 1-Butyl-3-methylimidazolium Hexafluorophosphate and 1-Butyl-3-methylimidazolium Tetrafluoroborate, with Benzene, Acetonitrile, and 1-Propanol at T = (293.15 to 343.15) K
rhol	824.89	kg/m3	343.15	Densities of Ionic Liquids, 1-Butyl-3-methylimidazolium Hexafluorophosphate and 1-Butyl-3-methylimidazolium Tetrafluoroborate, with Benzene, Acetonitrile, and 1-Propanol at T = (293.15 to 343.15) K
rhol	884.25	kg/m3	288.15	Densities and Excess Molar Volumes of the Ternary Mixture 2-Butanol + Chloroform + Benzene and Binary Mixtures 2-Butanol + Chloroform, or + Benzene over the Temperature Range (288.15 to 313.15) K

rhol	878.92	kg/m3	293.15	Densities and Excess Molar Volumes of the Ternary Mixture 2-Butanol + Chloroform + Benzene and Binary Mixtures 2-Butanol + Chloroform, or + Benzene over the Temperature Range (288.15 to 313.15) K
rhol	878.90	kg/m3	293.15	Densities and volumetric properties of (N-acetylmorpholine + aromatic hydrocarbon) binary mixtures from T = (293.15 to 343.15) K
rhol	873.20	kg/m3	298.15	Ternary (liquid + liquid) equilibria for mixtures of 1-hexyl-3-methylimidazolium (tetrafluoroborate or hexafluorophosphate) + benzene + an alkane at T = 298.2 K and p = 0.1 MPa
rhol	873.71	kg/m3	298.15	Application of the ionic liquid tributylmethylammonium bis(trifluoromethylsulfonyl)imide as solvent for the extraction of benzene from octane and decane at T = 298.15 K and atmospheric pressure
rhol	873.58	kg/m3	298.15	Densities and Excess Molar Volumes of the Ternary Mixture 2-Butanol + Chloroform + Benzene and Binary Mixtures 2-Butanol + Chloroform, or + Benzene over the Temperature Range (288.15 to 313.15) K

rhol	868.23	kg/m3	303.15	Densities and Excess Molar Volumes of the Ternary Mixture 2-Butanol + Chloroform + Benzene and Binary Mixtures 2-Butanol + Chloroform, or + Benzene over the Temperature Range (288.15 to 313.15) K
rhol	862.87	kg/m3	308.15	Densities and Excess Molar Volumes of the Ternary Mixture 2-Butanol + Chloroform + Benzene and Binary Mixtures 2-Butanol + Chloroform, or + Benzene over the Temperature Range (288.15 to 313.15) K
rhol	857.50	kg/m3	313.15	Densities and Excess Molar Volumes of the Ternary Mixture 2-Butanol + Chloroform + Benzene and Binary Mixtures 2-Butanol + Chloroform, or + Benzene over the Temperature Range (288.15 to 313.15) K
rhol	868.10	kg/m3	303.15	Volumetric Behavior of the Binary Mixtures of Methyl Ethyl Ketone with n-Hexane, Cyclohexane, and Benzene at T) (303.15, 313.15, and 323.15) K
rhol	857.40	kg/m3	313.15	Volumetric Behavior of the Binary Mixtures of Methyl Ethyl Ketone with n-Hexane, Cyclohexane, and Benzene at T) (303.15, 313.15, and 323.15) K

rhol	846.60	kg/m3	323.15	Volumetric Behavior of the Binary Mixtures of Methyl Ethyl Ketone with n-Hexane, Cyclohexane, and Benzene at T) (303.15, 313.15, and 323.15) K
rhol	873.50	kg/m3	298.15	Density, Speed of Sound, and Refractive Index for Binary Mixtures Containing Cycloalkanes and Aromatic Compounds at T = 313.15 K
rhol	873.64	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	885.00	kg/m3	289.00	KDB
rhol	884.25	kg/m3	288.15	Temperature Dependence of Densities and Excess Molar Volumes of the Ternary Mixture (1-Butanol + Chloroform + Benzene) and its Binary Constituents (1-Butanol + Chloroform and 1-Butanol + Benzene)

rhol	878.92	kg/m3	293.15	Temperature Dependence of Densities and Excess Molar Volumes of the Ternary Mixture (1-Butanol + Chloroform + Benzene) and its Binary Constituents (1-Butanol + Chloroform and 1-Butanol + Benzene)
rhol	873.58	kg/m3	298.15	Temperature Dependence of Densities and Excess Molar Volumes of the Ternary Mixture (1-Butanol + Chloroform + Benzene) and its Binary Constituents (1-Butanol + Chloroform and 1-Butanol + Benzene)
rhol	873.40	kg/m3	298.15	Mutual Solubility of Pyridinium-Based Tetrafluoroborates and Toluene
rhol	862.87	kg/m3	308.15	Temperature Dependence of Densities and Excess Molar Volumes of the Ternary Mixture (1-Butanol + Chloroform + Benzene) and its Binary Constituents (1-Butanol + Chloroform and 1-Butanol + Benzene)
rhol	857.50	kg/m3	313.15	Temperature Dependence of Densities and Excess Molar Volumes of the Ternary Mixture (1-Butanol + Chloroform + Benzene) and its Binary Constituents (1-Butanol + Chloroform and 1-Butanol + Benzene)

rhol	884.30	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	878.95	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	873.61	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	868.26	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	862.90	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	857.56	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	868.23	kg/m3	303.15	Effect of temperature on the excess molar volumes of some alcohol + aromatic mixtures and modelling by cubic EOS mixing rules
rhol	873.62	kg/m3	298.15	Topological Investigations of Excess Molar Volumes and Excess Isentropic Compressibilities of Ternary Mixtures Containing Pyrrolidin-2-one at 308.15 K
rhol	873.66	kg/m3	298.15	Densities, Viscosities, Speeds of Sound, and Refractive Indices of Binary Mixtures of 2-Ethyl-1-hexanol with Benzene and Halobenzenes

rhol	868.29	kg/m3	303.15	Densities, Viscosities, Speeds of Sound, and Refractive Indices of Binary Mixtures of 2-Ethyl-1-hexanol with Benzene and Halobenzenes
rhol	862.92	kg/m3	308.15	Densities, Viscosities, Speeds of Sound, and Refractive Indices of Binary Mixtures of 2-Ethyl-1-hexanol with Benzene and Halobenzenes
rhol	873.60	kg/m3	298.15	Fluid Phase Topology of Benzene + Cyclohexane + 1-Propanol at 101.3 kPa
rhol	873.55	kg/m3	298.15	Experimental and predicted vapour liquid equilibrium of 1,4-dioxane with cycloalkanes and benzene
rhol	884.25	kg/m3	288.15	Effect of temperature on the excess molar volumes of some alcohol + aromatic mixtures and modelling by cubic EOS mixing rules
rhol	878.92	kg/m3	293.15	Effect of temperature on the excess molar volumes of some alcohol + aromatic mixtures and modelling by cubic EOS mixing rules
rhol	873.58	kg/m3	298.15	Effect of temperature on the excess molar volumes of some alcohol + aromatic mixtures and modelling by cubic EOS mixing rules

rhol	873.71	kg/m3	298.15	Study of the suitability of two ammonium-based ionic liquids for the extraction of benzene from its mixtures with aliphatic hydrocarbons.	
rhol	873.73	kg/m3	298.15	Liquid liquid equilibria in the ternary systems {hexadecane + BTX aromatics + 2-methoxyethanol or acetonitrile} at 298.15 K	
rhol	873.53	kg/m3	298.15	Phase behaviour of tricyanomethanide-based ionic liquids with alcohols and hydrocarbons	
rhol	862.84	kg/m3	308.15	Heat capacities of binary and ternary mixtures containing o-chlorotoluene, cyclic ether and aromatic hydrocarbons	
rhol	868.20	kg/m3	303.15	Heat capacities of binary and ternary mixtures containing o-chlorotoluene, cyclic ether and aromatic hydrocarbons	
rhol	873.54	kg/m3	298.15	Heat capacities of binary and ternary mixtures containing o-chlorotoluene, cyclic ether and aromatic hydrocarbons	
rhol	873.79	kg/m3	298.15	Liquid-liquid equilibrium data for ternary mixtures composed of n-hexane, benzene and acetonitrile at (298.15, 308.15, and 318.15) K	

rhol	873.53	kg/m3	298.15	Phase behaviour of ionic liquid 1-butyl-1-methylpyrrolidinium tris(pentafluoroethyl)trifluorophosphate with alcohols, water and aromatic hydrocarbons
rhol	846.76	kg/m3	323.00	Volumetric behavior of the binary systems benzene + cyclohexane and benzene + 2,2,4-trimethyl-pentane at temperatures 293.15-323.15K
rhol	857.57	kg/m3	313.00	Volumetric behavior of the binary systems benzene + cyclohexane and benzene + 2,2,4-trimethyl-pentane at temperatures 293.15-323.15K
rhol	868.30	kg/m3	303.00	Volumetric behavior of the binary systems benzene + cyclohexane and benzene + 2,2,4-trimethyl-pentane at temperatures 293.15-323.15K
rhol	878.98	kg/m3	293.00	Volumetric behavior of the binary systems benzene + cyclohexane and benzene + 2,2,4-trimethyl-pentane at temperatures 293.15-323.15K
rhol	873.95	kg/m3	298.15	Liquid liquid equilibrium of ternary systems 1-butyl-3-methylimidazolium hexafluorophosphate + aromatic + aliphatic
rhol	857.50	kg/m3	313.15	Volumetric properties of the ternary system ethanol + chloroform + benzene at temperature range (288.15 313.15) K: Experimental data, correlation and prediction by cubic EOS

rhol	862.87	kg/m3	308.15	Volumetric properties of the ternary system ethanol + chloroform + benzene at temperature range (288.15 313.15) K: Experimental data, correlation and prediction by cubic EOS	
rhol	868.23	kg/m3	303.15	Volumetric properties of the ternary system ethanol + chloroform + benzene at temperature range (288.15 313.15) K: Experimental data, correlation and prediction by cubic EOS	
rhol	873.58	kg/m3	298.15	Volumetric properties of the ternary system ethanol + chloroform + benzene at temperature range (288.15 313.15) K: Experimental data, correlation and prediction by cubic EOS	
rhol	878.92	kg/m3	293.15	Volumetric properties of the ternary system ethanol + chloroform + benzene at temperature range (288.15 313.15) K: Experimental data, correlation and prediction by cubic EOS	

rhol	884.25	kg/m3	288.15	Volumetric properties of the ternary system ethanol + chloroform + benzene at temperature range (288.15 313.15) K: Experimental data, correlation and prediction by cubic EOS
rhol	873.58	kg/m3	298.15	Thermodynamic study of 1,1,2,2-tetrachloroethane + hydrocarbon mixtures I. Excess and solvation enthalpies
rhol	873.67	kg/m3	298.10	Excess enthalpies of binary mixtures of 2-ethoxyethanol with four hydrocarbons at 298.15, 308.15, and 318.15K An experimental and theoretical study
rhol	857.50	kg/m3	313.15	Effect of temperature on the excess molar volumes of some alcohol + aromatic mixtures and modelling by cubic EOS mixing rules
rhol	852.23	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	868.23	kg/m3	303.15	Temperature Dependence of Densities and Excess Molar Volumes of the Ternary Mixture (1-Butanol + Chloroform + Benzene) and its Binary Constituents (1-Butanol + Chloroform and 1-Butanol + Benzene)
sfust	35.40	J/mol×K	278.69	NIST Webbook
sfust	35.90	J/mol×K	278.64	NIST Webbook
sfust	35.50	J/mol×K	278.55	NIST Webbook
sfust	35.19	J/mol×K	278.60	NIST Webbook
sfust	32.10	J/mol×K	278.80	NIST Webbook
sfust	33.30	J/mol×K	279.10	NIST Webbook
sfust	35.59	J/mol×K	278.65	NIST Webbook
speedsl	1345.47	m/s	288.15	Temperature influence on mixing properties of {ethyl tert-butyl ether (ETBE) + gasoline additives}
speedsl	1368.70	m/s	283.15	Speeds of Sound and Isentropic Compressibilities for Binary Mixtures of a Cyclic Diether with a Cyclic Compound at Three Temperatures
speedsl	1298.30	m/s	298.15	Speeds of Sound and Isentropic Compressibilities for Binary Mixtures of a Cyclic Diether with a Cyclic Compound at Three Temperatures
speedsl	1229.50	m/s	313.15	Speeds of Sound and Isentropic Compressibilities for Binary Mixtures of a Cyclic Diether with a Cyclic Compound at Three Temperatures

speedsl	1345.47	m/s	288.15	Influence of Temperature on Thermodynamic Properties of Methyl t-Butyl Ether (MTBE)+Gasoline Additives
speedsl	1333.44	m/s	290.65	Influence of Temperature on Thermodynamic Properties of Methyl t-Butyl Ether (MTBE)+Gasoline Additives
speedsl	1321.59	m/s	293.15	Influence of Temperature on Thermodynamic Properties of Methyl t-Butyl Ether (MTBE)+Gasoline Additives
speedsl	1309.88	m/s	295.65	Influence of Temperature on Thermodynamic Properties of Methyl t-Butyl Ether (MTBE)+Gasoline Additives
speedsl	1298.27	m/s	298.15	Influence of Temperature on Thermodynamic Properties of Methyl t-Butyl Ether (MTBE)+Gasoline Additives
speedsl	1286.68	m/s	300.65	Influence of Temperature on Thermodynamic Properties of Methyl t-Butyl Ether (MTBE)+Gasoline Additives
speedsl	1275.13	m/s	303.15	Influence of Temperature on Thermodynamic Properties of Methyl t-Butyl Ether (MTBE)+Gasoline Additives

speedsl	1263.59	m/s	305.65	Influence of Temperature on Thermodynamic Properties of Methyl t-Butyl Ether (MTBE)+Gasoline Additives
speedsl	1252.08	m/s	308.15	Influence of Temperature on Thermodynamic Properties of Methyl t-Butyl Ether (MTBE)+Gasoline Additives
speedsl	1240.69	m/s	310.65	Influence of Temperature on Thermodynamic Properties of Methyl t-Butyl Ether (MTBE)+Gasoline Additives
speedsl	1229.29	m/s	313.15	Influence of Temperature on Thermodynamic Properties of Methyl t-Butyl Ether (MTBE)+Gasoline Additives
speedsl	1217.94	m/s	315.65	Influence of Temperature on Thermodynamic Properties of Methyl t-Butyl Ether (MTBE)+Gasoline Additives
speedsl	1206.70	m/s	318.15	Influence of Temperature on Thermodynamic Properties of Methyl t-Butyl Ether (MTBE)+Gasoline Additives
speedsl	1195.55	m/s	320.65	Influence of Temperature on Thermodynamic Properties of Methyl t-Butyl Ether (MTBE)+Gasoline Additives

speedsl	1184.63	m/s	323.15	Influence of Temperature on Thermodynamic Properties of Methyl t-Butyl Ether (MTBE)+Gasoline Additives
speedsl	1298.00	m/s	298.15	Isentropic Compressibilities Changes of Mixing of Tetrahydropyran and Aromatic Hydrocarbons Ternary Mixtures at 308.15 K
speedsl	1316.50	m/s	293.00	Ultrasonic velocity, viscosity and excess properties of binary mixture of tetrahydrofuran with 1-propanol and 2-propanol
speedsl	1294.00	m/s	298.00	Ultrasonic velocity, viscosity and excess properties of binary mixture of tetrahydrofuran with 1-propanol and 2-propanol
speedsl	1272.80	m/s	303.00	Ultrasonic velocity, viscosity and excess properties of binary mixture of tetrahydrofuran with 1-propanol and 2-propanol
speedsl	1226.50	m/s	313.00	Ultrasonic velocity, viscosity and excess properties of binary mixture of tetrahydrofuran with 1-propanol and 2-propanol
speedsl	1298.20	m/s	298.15	Sound speed and density measurements for tetra-n-butylammonium bromide in benzene and carbon tetrachloride solutions at T = 298.15 K

speedsl	1260.00	m/s	308.15	Densities, Speeds of Sound, Excess Molar Volumes, and Excess Isentropic Compressibilities at T = (298.15 and 308.15) K for Methyl Methacrylate + 1-Alkanols (1-Butanol, 1-Pentanol, and 1-Heptanol) + Cyclohexane, + Benzene, + Toluene, + p-Xylene, and + Ethylbenzene
speedsl	1300.00	m/s	298.15	Densities, Speeds of Sound, Excess Molar Volumes, and Excess Isentropic Compressibilities at T = (298.15 and 308.15) K for Methyl Methacrylate + 1-Alkanols (1-Butanol, 1-Pentanol, and 1-Heptanol) + Cyclohexane, + Benzene, + Toluene, + p-Xylene, and + Ethylbenzene
speedsl	1260.00	m/s	308.15	Densities, Excess Molar Volumes at T = (298.15 to 313.15) K, Speeds of Sound, Excess Isentropic Compressibilities, Relative Permittivities and Deviations in Molar Polarizations at T = (298.15 and 308.15) K for Methyl Methacrylate + 2-Butoxyethanol or + Dibutyl Ether + Benzene, + Toluene and + p-Xylene

speedsl	1299.00	m/s	298.15	Densities, Excess Molar Volumes at T = (298.15 to 313.15) K, Speeds of Sound, Excess Isentropic Compressibilities, Relative Permittivities and Deviations in Molar Polarizations at T = (298.15 and 308.15) K for Methyl Methacrylate + 2-Butoxyethanol or + Dibutyl Ether + Benzene, + Toluene and + p-Xylene
speedsl	1184.50	m/s	323.15	Temperature dependence of densities, speeds of sound, and derived properties of cyclohexylamine + cyclohexane or benzene in the range (293.15 to 323.15) K
speedsl	1207.00	m/s	318.15	Temperature dependence of densities, speeds of sound, and derived properties of cyclohexylamine + cyclohexane or benzene in the range (293.15 to 323.15) K
speedsl	1229.80	m/s	313.15	Temperature dependence of densities, speeds of sound, and derived properties of cyclohexylamine + cyclohexane or benzene in the range (293.15 to 323.15) K

speedsl	1252.80	m/s	308.15	Temperature dependence of densities, speeds of sound, and derived properties of cyclohexylamine + cyclohexane or benzene in the range (293.15 to 323.15) K
speedsl	1276.00	m/s	303.15	Temperature dependence of densities, speeds of sound, and derived properties of cyclohexylamine + cyclohexane or benzene in the range (293.15 to 323.15) K
speedsl	1299.30	m/s	298.15	Temperature dependence of densities, speeds of sound, and derived properties of cyclohexylamine + cyclohexane or benzene in the range (293.15 to 323.15) K
speedsl	1322.70	m/s	293.15	Temperature dependence of densities, speeds of sound, and derived properties of cyclohexylamine + cyclohexane or benzene in the range (293.15 to 323.15) K
speedsl	1184.47	m/s	323.15	Volumetric and Acoustic Properties of Binary Mixtures of Cyclohexane + Benzene and + Benzaldehyde at (293.15 to 323.15) K
speedsl	1207.04	m/s	318.15	Volumetric and Acoustic Properties of Binary Mixtures of Cyclohexane + Benzene and + Benzaldehyde at (293.15 to 323.15) K

speedsl	1229.76	m/s	313.15	Volumetric and Acoustic Properties of Binary Mixtures of Cyclohexane + Benzene and + Benzaldehyde at (293.15 to 323.15) K
speedsl	1252.76	m/s	308.15	Volumetric and Acoustic Properties of Binary Mixtures of Cyclohexane + Benzene and + Benzaldehyde at (293.15 to 323.15) K
speedsl	1275.96	m/s	303.15	Volumetric and Acoustic Properties of Binary Mixtures of Cyclohexane + Benzene and + Benzaldehyde at (293.15 to 323.15) K
speedsl	1299.33	m/s	298.15	Volumetric and Acoustic Properties of Binary Mixtures of Cyclohexane + Benzene and + Benzaldehyde at (293.15 to 323.15) K
speedsl	1322.72	m/s	293.15	Volumetric and Acoustic Properties of Binary Mixtures of Cyclohexane + Benzene and + Benzaldehyde at (293.15 to 323.15) K
speedsl	1207.80	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	1229.30	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	1252.40	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	1275.70	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	1299.50	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	1324.40	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	1298.00	m/s	298.15	Thermodynamic and topological investigations of molecular interactions in binary and ternary mixtures containing 1-methyl pyrrolidin-2-one at T = 308.15 K
speedsl	1184.63	m/s	323.15	Temperature influence on mixing properties of {ethyl tert-butyl ether (ETBE) + gasoline additives}
speedsl	1298.27	m/s	298.15	Temperature influence on mixing properties of {ethyl tert-butyl ether (ETBE) + gasoline additives}
speedsl	1259.00	m/s	308.15	Thermodynamic and topological investigations of molecular interactions in binary and ternary mixtures containing 1-methyl pyrrolidin-2-one at T = 308.15 K
srf	0.03	N/m	293.20	KDB
srf	0.03	N/m	280.25	Standard reference data for the air-liquid and vapor-liquid surface tension of benzene
srf	0.03	N/m	283.13	Standard reference data for the air-liquid and vapor-liquid surface tension of benzene
srf	0.03	N/m	285.64	Standard reference data for the air-liquid and vapor-liquid surface tension of benzene
srf	0.03	N/m	288.11	Standard reference data for the air-liquid and vapor-liquid surface tension of benzene

srf	0.03	N/m	290.58	Standard reference data for the air-liquid and vapor-liquid surface tension of benzene
srf	0.03	N/m	293.08	Standard reference data for the air-liquid and vapor-liquid surface tension of benzene
srf	0.03	N/m	295.46	Standard reference data for the air-liquid and vapor-liquid surface tension of benzene
srf	0.03	N/m	298.09	Standard reference data for the air-liquid and vapor-liquid surface tension of benzene
srf	0.03	N/m	300.41	Standard reference data for the air-liquid and vapor-liquid surface tension of benzene
srf	0.03	N/m	303.24	Standard reference data for the air-liquid and vapor-liquid surface tension of benzene
srf	0.03	N/m	306.00	Standard reference data for the air-liquid and vapor-liquid surface tension of benzene
srf	0.03	N/m	308.05	Standard reference data for the air-liquid and vapor-liquid surface tension of benzene
srf	0.03	N/m	310.32	Standard reference data for the air-liquid and vapor-liquid surface tension of benzene
srf	0.03	N/m	313.44	Standard reference data for the air-liquid and vapor-liquid surface tension of benzene

srf	0.03	N/m	293.15	Investigation of Surface Properties and Solubility of 1-Vinyl-3-alkyl/Esterimidazolium Halide Ionic Liquids by Density Functional Methods
tcondl	0.15	W/m×K	281.18	Thermal Conductivity and Thermal Diffusivity of Twenty-Nine Liquids: Alkenes, Cyclic (Alkanes, Alkenes, Alkadienes, Aromatics), and Deuterated Hydrocarbons
tcondl	0.15	W/m×K	281.49	Thermal Conductivity and Thermal Diffusivity of Twenty-Nine Liquids: Alkenes, Cyclic (Alkanes, Alkenes, Alkadienes, Aromatics), and Deuterated Hydrocarbons
tcondl	0.15	W/m×K	281.76	Thermal Conductivity and Thermal Diffusivity of Twenty-Nine Liquids: Alkenes, Cyclic (Alkanes, Alkenes, Alkadienes, Aromatics), and Deuterated Hydrocarbons
tcondl	0.14	W/m×K	295.92	Thermal Conductivity and Thermal Diffusivity of Twenty-Nine Liquids: Alkenes, Cyclic (Alkanes, Alkenes, Alkadienes, Aromatics), and Deuterated Hydrocarbons

tcondl	0.11	W/m×K	392.16	Thermal Conductivity Measurement of Polyglycol Alkyl Ethers at Temperatures from (303.15 to 393.15) K
tcondl	0.14	W/m×K	296.53	Thermal Conductivity and Thermal Diffusivity of Twenty-Nine Liquids: Alkenes, Cyclic (Alkanes, Alkenes, Alkadienes, Aromatics), and Deuterated Hydrocarbons
tcondl	0.14	W/m×K	301.25	Thermal Conductivity and Thermal Diffusivity of Twenty-Nine Liquids: Alkenes, Cyclic (Alkanes, Alkenes, Alkadienes, Aromatics), and Deuterated Hydrocarbons
tcondl	0.14	W/m×K	301.59	Thermal Conductivity and Thermal Diffusivity of Twenty-Nine Liquids: Alkenes, Cyclic (Alkanes, Alkenes, Alkadienes, Aromatics), and Deuterated Hydrocarbons
tcondl	0.14	W/m×K	301.87	Thermal Conductivity and Thermal Diffusivity of Twenty-Nine Liquids: Alkenes, Cyclic (Alkanes, Alkenes, Alkadienes, Aromatics), and Deuterated Hydrocarbons

tcondl	0.13	W/m×K	319.14	Thermal Conductivity and Thermal Diffusivity of Twenty-Nine Liquids: Alkenes, Cyclic (Alkanes, Alkenes, Alkadienes, Aromatics), and Deuterated Hydrocarbons
tcondl	0.13	W/m×K	319.49	Thermal Conductivity and Thermal Diffusivity of Twenty-Nine Liquids: Alkenes, Cyclic (Alkanes, Alkenes, Alkadienes, Aromatics), and Deuterated Hydrocarbons
tcondl	0.13	W/m×K	319.79	Thermal Conductivity and Thermal Diffusivity of Twenty-Nine Liquids: Alkenes, Cyclic (Alkanes, Alkenes, Alkadienes, Aromatics), and Deuterated Hydrocarbons
tcondl	0.14	W/m×K	302.75	Thermal Conductivity Measurement of Polyglycol Alkyl Ethers at Temperatures from (303.15 to 393.15) K
tcondl	0.13	W/m×K	332.54	Thermal Conductivity Measurement of Polyglycol Alkyl Ethers at Temperatures from (303.15 to 393.15) K
tcondl	0.12	W/m×K	362.39	Thermal Conductivity Measurement of Polyglycol Alkyl Ethers at Temperatures from (303.15 to 393.15) K

tcondl	0.14	W/m×K	296.25	Thermal Conductivity and Thermal Diffusivity of Twenty-Nine Liquids: Alkenes, Cyclic (Alkanes, Alkenes, Alkadienes, Aromatics), and Deuterated Hydrocarbons

Pressure Dependent Properties

Property code	Value	Unit	Pressure [kPa]	Source
tbp	353.35	K	96.60	Low cost apparatus for rapid boiling point determination of small air sensitive samples under inert atmosphere
tfp	351.25	K	300000.00	Fusion Curves and Enthalpy and Internal Energy Changes of Benzene, Nitrobenzene, Bromobenzene, and Chlorobenzene at Pressures up to 3500 MPa
tfp	293.15	K	53620.00	Influence of size and shape effects on the high-pressure solubility of n-alkanes: Experimental data, correlation and prediction
tfp	303.15	K	92220.00	Influence of size and shape effects on the high-pressure solubility of n-alkanes: Experimental data, correlation and prediction

tfp	313.15	K	133290.00	Influence of size and shape effects on the high-pressure solubility of n-alkanes: Experimental data, correlation and prediction
tfp	323.15	K	176820.00	Influence of size and shape effects on the high-pressure solubility of n-alkanes: Experimental data, correlation and prediction
tfp	333.15	K	222810.00	Influence of size and shape effects on the high-pressure solubility of n-alkanes: Experimental data, correlation and prediction
tfp	343.15	K	271270.00	Influence of size and shape effects on the high-pressure solubility of n-alkanes: Experimental data, correlation and prediction
tfp	353.15	K	322200.00	Influence of size and shape effects on the high-pressure solubility of n-alkanes: Experimental data, correlation and prediction
tfp	306.44	K	100000.00	Fusion Curves and Enthalpy and Internal Energy Changes of Benzene, Nitrobenzene, Bromobenzene, and Chlorobenzene at Pressures up to 3500 MPa

tfp	329.93	K	200000.00	Fusion Curves and Enthalpy and Internal Energy Changes of Benzene, Nitrobenzene, Bromobenzene, and Chlorobenzene at Pressures up to 3500 MPa
tfp	278.94	K	100.00	Activity coefficient at infinite dilution, azeotropic data, excess enthalpies and solid liquid-equilibria for binary systems of alkanes and aromatics with esters
tfp	370.85	K	400000.00	Fusion Curves and Enthalpy and Internal Energy Changes of Benzene, Nitrobenzene, Bromobenzene, and Chlorobenzene at Pressures up to 3500 MPa
tfp	389.07	K	500000.00	Fusion Curves and Enthalpy and Internal Energy Changes of Benzene, Nitrobenzene, Bromobenzene, and Chlorobenzene at Pressures up to 3500 MPa
tfp	406.15	K	600000.00	Fusion Curves and Enthalpy and Internal Energy Changes of Benzene, Nitrobenzene, Bromobenzene, and Chlorobenzene at Pressures up to 3500 MPa

tfp	422.25	K	700000.00	Fusion Curves and Enthalpy and Internal Energy Changes of Benzene, Nitrobenzene, Bromobenzene, and Chlorobenzene at Pressures up to 3500 MPa	
tfp	437.52	K	800000.00	Fusion Curves and Enthalpy and Internal Energy Changes of Benzene, Nitrobenzene, Bromobenzene, and Chlorobenzene at Pressures up to 3500 MPa	
tfp	452.06	K	900000.00	Fusion Curves and Enthalpy and Internal Energy Changes of Benzene, Nitrobenzene, Bromobenzene, and Chlorobenzene at Pressures up to 3500 MPa	
tfp	465.96	K	1000000.00	Fusion Curves and Enthalpy and Internal Energy Changes of Benzene, Nitrobenzene, Bromobenzene, and Chlorobenzene at Pressures up to 3500 MPa	
tfp	538.73	K	1500000.00	Fusion Curves and Enthalpy and Internal Energy Changes of Benzene, Nitrobenzene, Bromobenzene, and Chlorobenzene at Pressures up to 3500 MPa	

tfp	584.85	K	2000000.00	Fusion Curves and Enthalpy and Internal Energy Changes of Benzene, Nitrobenzene, Bromobenzene, and Chlorobenzene at Pressures up to 3500 MPa
tfp	625.73	K	2500000.00	Fusion Curves and Enthalpy and Internal Energy Changes of Benzene, Nitrobenzene, Bromobenzene, and Chlorobenzene at Pressures up to 3500 MPa
tfp	663.67	K	3000000.00	Fusion Curves and Enthalpy and Internal Energy Changes of Benzene, Nitrobenzene, Bromobenzene, and Chlorobenzene at Pressures up to 3500 MPa

Correlations

Information	Value
Property code	pvap
Equation	ln(Pvp) = A + B/(T + C)
Coeff. A	1.36756e+01
Coeff. B	-2.51081e+03
Coeff. C	-7.60040e+01
Temperature range (K), min.	263.55
Temperature range (K), max.	376.19

Information	Value
Property code	pvap
Equation	ln(Pvp) = A + B/T + C*ln(T) + D*T^2
Coeff. A	7.11072e+01
Coeff. B	-6.28104e+03

Coeff. C	-8.43361e+00
Coeff. D	6.19841e-06
Temperature range (K), min.	278.68
Temperature range (K), max.	562.16

Datasets

Viscosity, Pa*s

Temperature, K - Liquid	Pressure, kPa - Liquid	Viscosity, Pa*s - Liquid
313.20	690.00	0.0004790
313.20	5000.00	0.0005000
313.20	10000.00	0.0005240
313.20	20000.00	0.0005740
313.20	30000.00	0.0006250
313.20	40000.00	0.0006750
313.20	50000.00	0.0007250
313.20	60000.00	0.0007740
333.20	690.00	0.0003870
333.20	5000.00	0.0004040
333.20	10000.00	0.0004240
333.20	20000.00	0.0004660
333.20	30000.00	0.0005090
333.20	40000.00	0.0005530
333.20	50000.00	0.0005970
333.20	60000.00	0.0006410
353.20	690.00	0.0003170
353.20	5000.00	0.0003310
353.20	10000.00	0.0003470
353.20	20000.00	0.0003800
353.20	30000.00	0.0004150
353.20	40000.00	0.0004510
353.20	50000.00	0.0004890
353.20	60000.00	0.0005260
373.20	690.00	0.0002690
373.20	5000.00	0.0002790
373.20	10000.00	0.0002910
373.20	20000.00	0.0003160
373.20	30000.00	0.0003440

373.20	40000.00	0.0003720
373.20	50000.00	0.0004020
373.20	60000.00	0.0004340
393.20	690.00	0.0002390
393.20	5000.00	0.0002460
393.20	10000.00	0.0002550
393.20	20000.00	0.0002730
393.20	30000.00	0.0002940
393.20	40000.00	0.0003150
393.20	50000.00	0.0003390
393.20	60000.00	0.0003640

Reference *https://www.doi.org/10.1016/j.fluid.2007.08.010*

Temperature, K	Pressure, kPa	Viscosity, Pa*s
303.15	101.30	0.0005390

Reference *https://www.doi.org/10.1021/je034204h*

Mass density, kg/m3

Temperature, K - Liquid	Pressure, kPa - Liquid	Mass density, kg/m3 - Liquid
293.00	2100.00	877.4
293.00	3100.00	878.1
293.00	4100.00	878.8
293.00	5000.00	879.6
293.00	10100.00	883.4
293.00	20000.00	890.4
293.00	30000.00	896.9
293.00	40000.00	902.9
293.00	50000.00	908.6
293.00	60000.00	914.0
293.00	70000.00	919.6
313.00	2100.00	857.0
313.00	3100.00	857.8
313.00	4100.00	858.7
313.00	5000.00	859.6
313.00	10100.00	863.9
313.00	20000.00	871.5
313.00	30000.00	878.7

313.00	40000.00	885.2
313.00	50000.00	891.6
313.00	60000.00	897.5
313.00	70000.00	902.9
333.00	2100.00	835.1
333.00	3100.00	836.0
333.00	4100.00	837.0
333.00	5000.00	838.0
333.00	10100.00	842.7
333.00	20000.00	851.8
333.00	30000.00	859.4
333.00	40000.00	867.0
333.00	50000.00	874.2
333.00	60000.00	880.8
333.00	70000.00	886.7
353.00	2100.00	813.1
353.00	3100.00	814.2
353.00	4100.00	815.4
353.00	5000.00	816.5
353.00	10100.00	822.3
353.00	20000.00	832.3
353.00	30000.00	841.2
353.00	40000.00	849.5
353.00	50000.00	857.0
353.00	60000.00	864.3
353.00	70000.00	871.2
373.00	2100.00	790.7
373.00	3100.00	792.1
373.00	4100.00	793.4
373.00	5000.00	794.7
373.00	10100.00	801.4
373.00	20000.00	812.9
373.00	30000.00	823.1
373.00	40000.00	832.3
373.00	50000.00	840.7
373.00	60000.00	848.2
373.00	70000.00	855.7
393.00	2100.00	767.6
393.00	3100.00	769.4
393.00	4100.00	770.9
393.00	5000.00	772.5
393.00	10100.00	780.0
393.00	20000.00	793.0
393.00	30000.00	804.5

393.00	40000.00	814.6
393.00	50000.00	824.0
393.00	60000.00	832.6
393.00	70000.00	841.0
413.00	2100.00	743.0
413.00	3100.00	745.1
413.00	4100.00	747.0
413.00	5000.00	748.8
413.00	10100.00	758.0
413.00	20000.00	773.2
413.00	30000.00	786.2
413.00	40000.00	797.5
413.00	50000.00	807.8
413.00	60000.00	817.2
413.00	70000.00	825.8
433.00	2100.00	716.7
433.00	3100.00	719.4
433.00	4100.00	721.8
433.00	5000.00	724.0
433.00	10100.00	735.4
433.00	20000.00	753.0
433.00	30000.00	767.8
433.00	40000.00	780.3
433.00	50000.00	791.6
433.00	60000.00	801.7
433.00	70000.00	811.0
448.00	2100.00	696.0
448.00	3100.00	699.2
448.00	4100.00	702.1
448.00	5000.00	704.8
448.00	10100.00	717.8
448.00	20000.00	738.0
448.00	30000.00	754.2
448.00	40000.00	767.8
448.00	50000.00	779.8
448.00	60000.00	790.6
448.00	70000.00	800.3
468.00	2100.00	666.9
468.00	3100.00	670.7
468.00	4100.00	674.3
468.00	5000.00	677.8
468.00	10100.00	693.2
468.00	20000.00	717.0
468.00	30000.00	735.1

468.00	40000.00	750.3
468.00	50000.00	763.6
468.00	60000.00	775.5
468.00	70000.00	786.1

Reference *https://www.doi.org/10.1016/j.fluid.2016.09.021*

Speed of sound, m/s

Temperature, K - Liquid	Pressure, kPa - Liquid	Speed of sound, m/s - Liquid
283.15	101.00	1371.6
283.15	1112.00	1376.8
283.15	2281.00	1382.4
283.15	4616.00	1393.2
283.15	6766.00	1403.3
283.15	9100.00	1413.6
283.15	11628.00	1424.5
283.15	14278.00	1436.0
283.15	15957.00	1443.4
283.15	18556.00	1454.0
283.15	20823.00	1463.0
283.15	23405.00	1473.4
298.15	101.00	1299.9
298.15	888.00	1305.0
298.15	1246.00	1305.8
298.15	2254.00	1311.8
298.15	2506.00	1312.2
298.15	4580.00	1322.5
298.15	4719.00	1323.9
298.15	6991.00	1334.4
298.15	7131.00	1335.5
298.15	9327.00	1346.2
298.15	9335.00	1346.2
298.15	9408.00	1346.0
298.15	11563.00	1355.8
298.15	11640.00	1357.0
298.15	14137.00	1368.5
298.15	14317.00	1368.6
298.15	15927.00	1375.9
298.15	16524.00	1379.1
298.15	18655.00	1388.6

298.15	18844.00	1389.0
298.15	20826.00	1398.1
298.15	21001.00	1398.6
298.15	23151.00	1407.9
298.15	23834.00	1410.7
298.15	25699.00	1418.5
298.15	26172.00	1420.5
298.15	28369.00	1428.5
298.15	101.00	1300.2
313.15	101.00	1230.8
313.15	2047.00	1241.3
313.15	3268.00	1247.8
313.15	5111.00	1257.8
313.15	7199.00	1268.7
313.15	9383.00	1280.0
313.15	11613.00	1291.3
313.15	14139.00	1303.7
313.15	16386.00	1314.6
313.15	18686.00	1325.5
313.15	21242.00	1337.2
313.15	23254.00	1346.4
313.15	24384.00	1351.3
313.15	25607.00	1357.2
313.15	25608.00	1357.3
313.15	28210.00	1368.6
333.15	101.00	1142.4
333.15	1260.00	1148.0
333.15	2426.00	1155.0
333.15	5026.00	1170.5
333.15	7135.00	1182.9
333.15	9195.00	1194.5
333.15	11729.00	1208.4
333.15	14011.00	1220.6
333.15	16310.00	1232.7
333.15	18687.00	1244.8
333.15	20059.00	1251.8
333.15	21112.00	1257.2
333.15	23196.00	1267.4
333.15	25517.00	1278.7
333.15	28165.00	1287.7

Reference *https://www.doi.org/10.1016/j.jct.2004.04.013*

Temperature, K	Pressure, kPa	Frequency, MHz	Speed of sound, m/s

303.15	101.33	2.0	1257.0

Reference https://www.doi.org/10.1016/j.jct.2004.12.001

Pressure, kPa	Temperature, K	Speed of sound, m/s
29815.10	283.21	1498.11
24857.00	283.20	1479.03
20203.80	283.20	1460.21
15331.80	283.20	1439.87
10233.80	283.20	1418.25
5280.10	283.20	1395.99
102.10	283.20	1372.03
30106.10	298.20	1436.88
25017.80	298.20	1415.76
20104.10	298.20	1394.27
14866.50	298.20	1371.03
10068.60	298.20	1349.48
5421.70	298.20	1326.99
84.20	298.20	1299.74
29980.00	313.20	1375.67
25204.40	313.20	1354.82
20194.50	313.20	1332.15
15331.60	313.20	1309.02
10140.00	313.20	1283.5
5536.50	313.20	1259.76
61.20	313.20	1230.41
30145.60	333.21	1299.17
24756.40	333.21	1273.95
19600.70	333.21	1248.51
15038.40	333.21	1225.05
10149.20	333.21	1198.3
5378.80	333.21	1171.44
153.70	333.21	1139.68
30063.00	353.21	1225.96
24679.70	353.21	1198.74
19917.50	353.20	1173.19
15092.20	353.20	1146.64
10006.90	353.21	1116.2
5094.90	353.21	1084.94
172.30	353.21	1052.25

Reference https://www.doi.org/10.1021/je501065g

Sources

Excess Molar Enthalpies and Excess Molar Volumes of the Ternary System 1,2-Dichlorobenzene + Benzene + 1-Chlorohexane at 298.15 K:	https://www.doi.org/10.1021/je025625m
Activity Coefficients at Infinite Dilution for Organic Solutes Dissolved in Three 1-Alkyl-1-methylpyrrolidinium Bis(trifluoromethylsulfonyl)imide Ionic Liquids Bearing Short Linear Alkyl Side Chains of Three to Five Carbons:	https://www.doi.org/10.1021/je4001894
Recommended sublimation pressure and enthalpy of benzene:	https://www.doi.org/10.1016/j.jct.2013.08.022
Phase Equilibria of (1-Hexyl-3-methylimidazolium Thiocyanate + Water, Alcohol, or Hydrocarbon) Binary Systems:	https://www.doi.org/10.1021/je900460m
Measurements of activity coefficients at infinite dilution in 1-hexyloxymethyl-3-methylimidazolium tetrafluoroborate ionic liquid:	https://www.doi.org/10.1016/j.jct.2007.01.004
Thermodynamic study of 1,1,2,2-tetrachloroethane + hydrocarbon mixtures I. Excess and solvation enthalpies:	https://www.doi.org/10.1016/j.fluid.2006.10.013
Density and Viscosity of Propyl Formate + Aromatic Hydrocarbons at T = (303.15, 308.15, and 313.15) K:	https://www.doi.org/10.1021/je901071x
Isothermal Vapor-Liquid Equilibrium at 333.15 K, Density, and Refractive Index at 298.15 K for the Ternary Mixture of Dibutyl Ether + Ethanol + Benzene and Binary Subsystems:	https://www.doi.org/10.1021/je600578u
Liquid phase behaviour of 1-hexyloxymethyl-3-methyl-imidazolium-based ionic liquids with hydrocarbons: The influence of anion:	https://www.doi.org/10.1016/j.jct.2005.02.012
Liquid-Liquid Equilibria of Benzene + n-Heptane + N,N-Dimethylformamide and Benzene + n-Heptane + N,N-Dimethylformamide + Ammonium Thiocyanate:	https://www.doi.org/10.1021/je400635d
Solubility of hydrofluorocarbons in aromatic solvents and alcohols: Experimental data and modeling with CPA EoS:	https://www.doi.org/10.1016/j.fluid.2012.09.013
Phase equilibrium measurements of (methane + benzene) and (methane + methylbenzene) at temperatures from (188 to 348) K and pressures to 13 MPa:	https://www.doi.org/10.1016/j.jct.2014.12.031
Thermodynamic Properties of Ternary Liquid Mixtures Containing o-Chlorotoluene: Excess Molar Volumes and Excess Isentropic Compressibilities:	https://www.doi.org/10.1021/je5004719
Measurement of Activity Coefficients of Solutes at Infinite Dilution in (Dimethyl Sulfoxide, Sulfolane, or Formamide, or Urea) Using Gas Liquid Chromatography at the Temperature 298.15 K:	https://www.doi.org/10.1021/je030122h
[illegible] [EMIM][FeCl4] for the Extractive Separation of Aliphatic Hydrocarbons:	https://www.doi.org/10.1021/je400076x
Solubilities of (6-Oxido-6H-dibenz[c,e][1,2]oxaphosphorin-6-yl)-methanol in the Selected Solvents:	https://www.doi.org/10.1021/je050488p
Solvation parameter model and thermodynamic parameters in a dicationic ionic liquid based on pyrrolidinium:	https://www.doi.org/10.1016/j.jct.2014.12.023
Phase Equilibria of (1-Ethyl-3-methylimidazolium Ethylsulfate + Hydrocarbon, + Ketone, and + Ether) Binary Systems:	https://www.doi.org/10.1021/je700591h
Isobaric vapor-liquid equilibrium for binary system of cinnamaldehyde + benzaldehyde at 10, 20 and 30 kPa:	https://www.doi.org/10.1016/j.fluid.2013.12.002
Densities and excess volumes of binary mixtures of N,N-dimethylformamide with aromatic hydrocarbon at different temperature:	https://www.doi.org/10.1016/j.jct.2006.07.022
Measurements of activity coefficients at infinite dilution for organic solutes [illegible]	https://www.doi.org/10.1016/j.jct.2012.03.005
Phase behaviour of ionic liquid [illegible]	https://www.doi.org/10.1016/j.fluid.2013.01.027
The volumetric properties of (1,2-propanediol carbonate + benzene, ethylbenzene, styrene) binary mixtures at temperatures from T = 298.15 K to T = 353.15 K:	https://www.doi.org/10.1016/j.jct.2005.03.019
Determination of activity coefficients at infinite dilution of organic solutes in [illegible]	https://www.doi.org/10.1016/j.fluid.2005.04.021
[illegible]	https://www.doi.org/10.1016/j.jct.2018.05.017
Measurement of vapor-liquid equilibria [illegible]	https://www.doi.org/10.1016/j.fluid.2007.06.001
[illegible]	https://www.doi.org/10.1016/j.fluid.2017.04.008
[illegible]	https://www.doi.org/10.1007/s10765-010-0768-y
[illegible]	https://www.doi.org/10.1016/j.tca.2006.03.012
Physical properties of [illegible]	https://www.doi.org/10.1016/j.jct.2011.05.022
Solid-Liquid Phase Equilibrium of N,N'-Piperazinebis(neopentylglycol)phosphoramidate [illegible]	https://www.doi.org/10.1021/acs.jced.7b00206
Abraham model correlations [illegible]	https://www.doi.org/10.1016/j.jct.2018.05.003
[illegible]	https://www.doi.org/10.1016/j.tca.2016.05.011
[illegible]	https://www.doi.org/10.1021/je800579j
Excess Properties of Binary Mixtures of [illegible]	https://www.doi.org/10.1021/acs.jced.6b00733
Activity Coefficients at Infinite Dilution of Organic Solutes in [illegible]	https://www.doi.org/10.1021/je9008443
[illegible] activity coefficients using [illegible]	https://www.doi.org/10.1016/j.jct.2012.01.016
[illegible] 1-Isobutenyl-3-methylimidazolium Tetrafluoroborate Ionic Liquids:	https://www.doi.org/10.1021/je0604277

Liquid-Liquid Equilibria for Binary Mixtures of Water + Benzene, + Toluene, and + p-Xylene from 273 K to 498 K:	https://www.doi.org/10.1021/je034033g
Thermophysical properties and phase equilibria study of the binary systems {N-hexylquinolinium bis(trifluoromethylsulfonyl)imide + aromatic hydrocarbons, or an alcohol}:	https://www.doi.org/10.1016/j.jct.2010.12.021
(Vapour + liquid) equilibria of {1-butanol + benzene or toluene, or o-, or m-, or p-xylene} at T = 308.15 K:	https://www.doi.org/10.1016/j.jct.2004.01.001
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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:	https://www.doi.org/10.1016/j.fluid.2007.07.016
Vapor-Liquid Equilibrium Data for Binary Systems of N,N-Dimethylacetamide with Cyclohexene, Cyclohexane, and Benzene Separately at Atmospheric Pressure:	https://www.doi.org/10.1021/acs.jced.5b00011
Measurements of activity coefficients at infinite dilution for organic solutes and water in the ionic liquid 1-butyl-1-methylpyrrolidinium tricyanomethanide:	https://www.doi.org/10.1016/j.jct.2013.07.004
Thermodynamics and activity coefficients at infinite dilution for organic solutes in the ionic liquid 1-butyl-1-methylpyrrolidinium dicyanamide:	https://www.doi.org/10.1016/j.fluid.2018.06.013
Densities, Speeds of Sound, Excess Molar Volumes, and Excess Isentropic Compressibilities at T = (298.15 and 308.15) K for Methyl Methacrylate + 1-Alkanols (1-Butanol, 1-Pentanol, and 1-Heptanol) + Cyclohexane, + Benzene, + Toluene, + p-Xylene, and + Ethylbenzene:	https://www.doi.org/10.1021/je100652b
Excess Enthalpies of Chloroalkylbenzene + Alkylbenzene Mixtures:	https://www.doi.org/10.1021/je7002447
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Solubilities of Triphenylphosphine Oxide in Selected Solvents:	https://www.doi.org/10.1021/je800842z
(Liquid + liquid) equilibrium for ternary mixtures of {heptane + aromatic compounds + [EMpy][ESO4]} at T = 298.15 K:	https://www.doi.org/10.1016/j.jct.2011.05.009
Mutual Solubility Measurements of Hydrocarbon-Water Systems Containing Benzene, Toluene, and 3-Methylpentane:	https://www.doi.org/10.1021/je700449z
Fluid Phase Topology of Benzene + Cyclohexane + 1-Propanol at 101.3 kPa:	https://www.doi.org/10.1007/s10765-015-1922-3
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Excess molar volumes, excess molar enthalpies, and excess isentropic compressibilities of tetrahydropyran with aromatic hydrocarbons:	https://www.doi.org/10.1016/j.jct.2010.07.016
Henry's constants and activity coefficients of some organic solutes in 1-butyl-3-methylimidazolium hydrogen sulfate and in 1-methyl-3-trimethylsilylmethylimidazolium chloride	https://www.doi.org/10.1016/j.jct.2012.08.022
Activity Coefficients at Infinite Dilution of Alkanes, Alkenes, and Alkyl Benzenes in 1-Propyl-2,3-dimethylimidazolium Tetrafluoroborate Using Gas-Liquid Chromatography:	https://www.doi.org/10.1021/je6005696
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Thermodynamic Properties of Binary and Ternary Mixtures Containing Di-Isopropyl Ether, 2-Propanol, and Benzene at T = 313.15 K:	https://www.doi.org/10.1021/je900977e
Activity coefficients at infinite dilution measurements for organic solutes in the ionic liquid trihexyltetradecylphosphonium-bis-(2,4,4-trimethylpentyl)-phosphinate using g.l.c. at T = (303.15, 308.15, 313.15, and 318.15) K:	https://www.doi.org/10.1016/j.jct.2008.04.002
Activity Coefficients at Infinite Dilution of Organic Solutes in 1-Hexyl-3-methylimidazolium Hexafluorophosphate from Gas-Liquid Chromatography:	https://www.doi.org/10.1021/je0256481
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(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:	https://www.doi.org/10.1016/j.jct.2006.12.004
Solubilities of Benzene, Toluene, and Xylene Isomers in 1-Butyl-3-methylimidazolium Tetrafluoroborate:	https://www.doi.org/10.1021/je060041w
(Liquid + liquid) equilibria for mixtures of (ethylene glycol + benzene + cyclohexane) at temperatures (298.15, 308.15, and 318.15) K:	https://www.doi.org/10.1016/j.jct.2010.10.003
Quantitative comparison between predicted and experimental binary n-alkane + benzene phase behaviors using cubic and PC-SAFT EOS:	https://www.doi.org/10.1016/j.fluid.2016.07.004
Phase equilibria and excess molar enthalpies study of the binary systems (pyrrole + hydrocarbon, or an alcohol) and modelling:	https://www.doi.org/10.1016/j.fluid.2013.10.029
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Densities and Excess Molar Volumes of the Binary 1-Propanol + Chloroform and 1-Propanol + Benzene and Ternary 1-Propanol + Chloroform + Benzene Mixtures at (288.15, 293.15, 298.15, 303.15, 308.15, and 313.15) K:	https://www.doi.org/10.1021/je700254t
Topological Investigations of Excess Molar Volumes and Excess Isentropic Compressibilities of Ternary Mixtures Containing Pyrrolidin-2-one at 308.15 K:	https://www.doi.org/10.1007/s10765-010-0861-2
Evaluation of ionic liquids as solvent for aromatic extraction: Experimental, correlation and COSMO-RS predictions:	https://www.doi.org/10.1016/j.jct.2013.07.011
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Activity coefficients at infinite dilution of organic solutes in N-formylmorpholine and N-methylpyrrolidone from gas-liquid chromatography:	https://www.doi.org/10.1016/j.jct.2013.02.006
Solubilities of the Gaseous and Liquid Solutes and Their Thermodynamics of Solubilization in the Novel Room-Temperature Ionic Liquids at Infinite Dilution by Gas Chromatography:	https://www.doi.org/10.1021/je700297c
Excess heat capacities of mixtures containing 1-methylpyrrolidin-2-one, chlorobenzene and benzene:	https://www.doi.org/10.1016/j.jct.2014.12.022
Solubilities of Phosphonic Acid, P,P'-(1,4-Piperazinediyl)bis-,P,P,P',P'-tetraphenyl Ester in Selected Solvents:	https://www.doi.org/10.1021/je400412z
Thermodynamic Properties of Mixtures Containing Ionic Liquids: Activity Coefficients at Infinite Dilution of Organic Compounds in 1-Propyl Boronic Acid-3-Alkylimidazolium Bromide and 1-Propenyl-3-alkylimidazolium Bromide Using Inverse Gas Chromatography:	https://www.doi.org/10.1021/je060033f

Effects of the presence of ethylacetate or benzene on the densities and volumetric properties of mixture (styrene + N,N-dimethylformamide)	https://www.doi.org/10.1016/j.jct.2007.02.007
Densities and Viscosities for the Ternary Systems of Methyl tert-Butyl Ether + Methanol + Benzene and Methyl tert-Butyl Ether + Methanol + Toluene and Their Sub-binary Systems at 298.15 K	https://www.doi.org/10.1021/je0600799
Solubilities [illegible] 1-Hexyl-3-methylimidazole Nitrate and Selected Solvents	https://www.doi.org/10.1021/je200151j
Determination of Activity Coefficients at Infinite Dilution of Polar and Nonpolar Solutes in the Ionic Liquid 1-Ethyl-3-methylimidazolium Bis(trifluoromethylsulfonyl) imidate Using Gas-Liquid Chromatography at the Temperature 303.15 K or 318.15 K	https://www.doi.org/10.1021/je0498107
Activity coefficients at infinite dilution measurements for organic solutes and [illegible]	https://www.doi.org/10.1016/j.jct.2011.02.012
Activity coefficients at infinite dilution and physicochemical properties for [illegible] 1-(2-hydroxyethyl)-3-methylimidazolium acetate.	https://www.doi.org/10.1016/j.jct.2013.05.008
Solubilities of some organic [illegible]	https://www.doi.org/10.1016/j.jct.2011.11.005
Using binary mixtures of dicationic ionic liquids for [illegible]	https://www.doi.org/10.1016/j.fluid.2013.05.038
[illegible] selectivity coefficients at infinite dilution [illegible] by gas liquid chromatography:	https://www.doi.org/10.1016/j.fluid.2019.01.028
A study on densities and excess volumes in the (γ-butyrolactone + aromatic hydrocarbon) system at various temperatures	https://www.doi.org/10.1016/j.jct.2006.10.005
Activity coefficients at infinite dilution measurements for organic solutes in the ionic liquid [illegible]	https://www.doi.org/10.1016/j.jct.2005.03.014
Partition Coefficients of Organic Compounds in New Imidazolium and [illegible]	https://www.doi.org/10.1021/je9003178
Vapor Liquid Equilibrium of [illegible]	https://www.doi.org/10.1021/je7005665
Vapor Pressure Measurements for Binary Mixtures Containing Ionic Liquid and Predictions by the Conductor-like Screening Model for Real Solvents:	https://www.doi.org/10.1021/acs.jced.5b00760
Measurements of activity coefficients at infinite dilution of organic [illegible]	https://www.doi.org/10.1016/j.jct.2010.10.026
Effect of temperature on the excess molar volumes of some alcohol + [illegible] mixtures and modelling by cubic EOS mixing rules:	https://www.doi.org/10.1016/j.fluid.2005.10.022
Joback Method	https://en.wikipedia.org/wiki/Joback_method
Isothermal Vapor-Liquid Equilibrium for Methanol and 2,3-Dimethyl-1-butene at 343.06 K, 353.21 K, 363.10 K, and 372.99 K	https://www.doi.org/10.1021/je101304x
Isobaric vapor–liquid equilibrium for the binary mixtures of nonane with cyclohexane, toluene, m-xylene, or p-xylene at 101.3 kPa:	https://www.doi.org/10.1016/j.fluid.2011.10.009
Determination of Activity Coefficients at Infinite Dilution of Solutes in the Ionic Liquid, [illegible]	https://www.doi.org/10.1021/je800105r
Activity coefficients at infinite dilution of organic solutes in the ionic liquid [illegible]	https://www.doi.org/10.1016/j.jct.2010.12.019
Vapor liquid equilibrium for the binary mixtures [illegible]	https://www.doi.org/10.1016/j.fluid.2014.03.003
Determination of Activity Coefficients at Infinite Dilution of Solutes in the Ionic Liquid [illegible]	https://www.doi.org/10.1021/je030187k
Measurement and correlation of the solubility of [illegible]	https://www.doi.org/10.1016/j.jct.2015.06.003
Separation of binary mixtures [illegible]	https://www.doi.org/10.1016/j.jct.2017.03.004
[illegible]	https://www.doi.org/10.1016/j.fluid.2011.01.025
Solubilities of Vitamin K3 in Benzene, Toluene, Ethylbenzene, o-Xylene, m-Xylene, and p-Xylene between (299.44 and 344.24) K	https://www.doi.org/10.1021/je7003885
[illegible] Ternary and Quaternary Systems Including Methyl Acetate, Benzene, Toluene, and Water at 298.15 K under Atmospheric [illegible]	https://www.doi.org/10.1021/je100077z
Volumetric and transport properties of ternary mixtures containing 1-propanol + ethylethanoate + cyclohexane or [illegible]	https://www.doi.org/10.1016/j.tca.2008.11.007
Activity coefficients at infinite dilution, physicochemical and thermodynamic [illegible]	https://www.doi.org/10.1016/j.jct.2015.05.022
Determination and Correlation of Solubility of 3,4-Dinitro-1H-pyrazole in [illegible]	https://www.doi.org/10.1021/acs.jced.6b00219
[illegible] ethyl(2-hydroxyethyl)ammonium [illegible]	https://www.doi.org/10.1021/acs.jced.9b00341
[illegible] Binary Mixtures Based on Activity [illegible]	https://www.doi.org/10.1021/acs.jced.8b00601
Densities, viscosities, and excess properties of (N-methylmorpholine + cyclohexane, and + benzene, and + toluene) at T = (298.15, 303.15, 313.15, 323.15) K:	https://www.doi.org/10.1016/j.jct.2007.11.002
Liquid–Liquid Equilibrium of Ternary Systems of Cyclohexane + (Benzene, + Toluene, + Ethylbenzene, or + o-Xylene) [illegible]	https://www.doi.org/10.1021/je7007268
Solubilities of 3,9-Dimethyl-3,9-dioxide-2,4,8,10-tetraoxa-3,9-diphosphaspiro[5.5]undecane [illegible]	https://www.doi.org/10.1021/je9004189
Tetramethylammonium chloride + glycerol deep eutectic solvent as separation agent for organic liquid mixtures: Assessment from experimental limiting activity [illegible]	https://www.doi.org/10.1016/j.fluid.2018.06.003
Activity Coefficients at Infinite Dilution for Organic Compounds Dissolved in [illegible]	https://www.doi.org/10.1021/je300692s
Thermodynamic properties of binary mixtures of N-methyl-2-pyrrolidinone [illegible]	https://www.doi.org/10.1016/j.jct.2006.06.005
Activity coefficients at infinite dilution of alkanes, alkenes, alkylbenzenes in [illegible] phosphate based ionic liquids using gas liquid chromatography:	https://www.doi.org/10.1016/j.jct.2015.07.046
[illegible] liquid equilibrium of 1,4-dioxane with cycloalkanes and benzene:	https://www.doi.org/10.1016/j.fluid.2005.09.010
Solubility in Different Solvents, Crystal Polymorph and Morphology, and Optimization of Crystallization Process of AIBN:	https://www.doi.org/10.1021/acs.jced.7b00538
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Densities and Viscosities of Binary Liquid Mixtures of Trichloroethylene and Tetrachloroethylene with Some Polar and Nonpolar Solvents	https://www.doi.org/10.1021/je034203p
Determination of Activity Coefficients at Infinite Dilution of 35 Solutes in the Ionic Liquid, 1-Butyl-3-methylimidazolium Tosylate, Using Gas-Liquid Chromatography:	https://www.doi.org/10.1021/je100410k
Study of critical and maximum temperatures of coexistence of liquid and gas phases in hydrocarbons binary mixtures of aromatic hydrocarbons with alkanes and cycloalkanes	https://www.doi.org/10.1016/j.fluid.2014.06.020
Excess molar volumes and excess isentropic compressibilities of [illegible] at 308.15 K:	https://www.doi.org/10.1016/j.tca.2009.07.017
Activity coefficients at infinite dilution of organic solutes in the ionic liquid trihexyltetradecylphosphonium bis(trifluoromethylsulfonyl)imide using gas-liquid chromatography at T = (313.15, 333.15, 353.15 and 373.15) K:	https://www.doi.org/10.1016/j.jct.2013.05.030
The Critical Temperatures of a Number of (i) (Chloroalkane (C3,C4) + [illegible] 1-Alkane (C8)) Binary Mixtures	https://www.doi.org/10.1021/acs.jced.7b00191
Sound speed and density measurements for [illegible]	https://www.doi.org/10.1016/j.jct.2005.08.018
[illegible] systems (aliphatic or aromatic [illegible]	https://www.doi.org/10.1016/j.jct.2009.07.023
Solubility of Acenaphthene in Different Solvents from (283.00 to 323.00) K:	https://www.doi.org/10.1021/je8006869
Activity coefficient at infinite dilution, azeotropic data, excess enthalpies and solid liquid-equilibria for binary systems of alkanes and aromatics with esters:	https://www.doi.org/10.1016/j.fluid.2004.12.005
Solvent Polarity Effect [illegible] Amberlite [illegible] Used in the Extraction [illegible] Acid:	https://www.doi.org/10.1021/acs.jced.6b00970
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Low cost apparatus for rapid boiling point determination of small air sensitive samples under inert atmosphere:	https://www.doi.org/10.1016/j.tca.2017.05.005
Investigation of Surface Properties and Solubility of 1-Vinyl-3-alkyl/Esterimidazolium Halide Ionic Liquids by Density Functional Methods:	https://www.doi.org/10.1021/je500205z
Liquid Liquid Extraction of Aromatic Compounds from Cycloalkanes Using 1-Butyl-3-methylimidazolium Methylsulfate Ionic Liquid:	https://www.doi.org/10.1021/je300826t
Phase equilibria of binary mixtures (ionic liquid + aromatic hydrocarbon): Effect of the structure of the components on the solubility:	https://www.doi.org/10.1016/j.fluid.2013.09.044
Solubility of Fluorene in Benzene, Chloroform, Acetone, 1-Propanol, Isobutanol, and Methylbenzene from (283 to 323) K:	https://www.doi.org/10.1021/je800676s
Activity Coefficients at Infinite Dilution Measurements for Organic Solutes and Water in the Ionic Liquid 1-Butyl-3-methylpyridinium Trifluoromethanesulfonate:	https://www.doi.org/10.1021/je1000582
Activity coefficients at infinite dilution and physicochemical properties for organic solutes and water in the ionic liquid 1-(2-methoxyethyl)-1-methylpiperidinium [illegible]	https://www.doi.org/10.1016/j.jct.2012.08.016
Activity coefficients at infinite dilution of organic solutes in 1-hexyl-3-methylimidazolium trifluoroacetate and [illegible] using gas liquid chromatography:	https://www.doi.org/10.1016/j.jct.2013.10.038
Isobaric vapor-liquid equilibrium for binary systems of toluene + o-xylene, benzene + o-xylene, nonane + benzene and nonane + heptane at 101.3 kPa:	https://www.doi.org/10.1016/j.fluid.2013.05.016
[illegible] Viscosities of Cyclohexane + Tetradecane and Cyclohexane + Benzene from (313 to 393) K and Pressures Up to 60 MPa:	https://www.doi.org/10.1021/je800882f
Interactions of volatile organic compounds with the ionic liquids 1-butyl-1-methylpyrrolidinium tetracyanoborate and 1-butyl-1-methylpyrrolidinium bis(oxalato)borate:	https://www.doi.org/10.1016/j.jct.2012.09.017
Liquid liquid equilibria for ternary systems of {cyclohexane + aromatic compounds + 1-ethyl-3-methylpyridinium ethylsulfate}:	https://www.doi.org/10.1016/j.fluid.2010.05.009
Synthesis and Solubility of 5,5-Dimethyl-2-(phenyl(phenylamino)methyl)-1,3,2-dioxaphosphinane 2-oxide in Selected Solvents between 278.15 K and 347.15 K:	https://www.doi.org/10.1021/acs.jced.7b00585
Thermophysical properties of the binary mixtures of 2-methyl-tetrahydrofuran with benzene and halobenzenes:	https://www.doi.org/10.1016/j.tca.2005.08.034
Infinite dilution activity coefficients of volatile organic compounds in two ionic liquids composed of the tris(pentafluoroethyl)trifluorophosphate ([FAP]) anion and a [illegible] cation:	https://www.doi.org/10.1016/j.jct.2013.05.035
Excess molar volumes of (acetophenone + benzene, or toluene, or ethylbenzene) at temperatures (298.15 and 328.15) K:	https://www.doi.org/10.1016/j.jct.2004.11.023
Temperature influence on mixing properties of {ethyl tert-butyl ether (ETBE) + gasoline additives}:	https://www.doi.org/10.1016/j.jct.2007.05.005
Comparison Study on Temperature Dependence of the Interfacial Tension of n-Alkane Water and n-Alcohol Water Two Binary Systems:	https://www.doi.org/10.1021/je500450w
Isobaric vapor-liquid equilibrium of binary systems of decane with p-, o-, m-xylene at 20 kPa:	https://www.doi.org/10.1016/j.fluid.2012.09.019
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:	https://www.doi.org/10.1016/j.jct.2006.02.001
Gas solubilities of nitrogen or oxygen in benzene, divinylbenzene, styrene and [illegible] styrene at (293-313) K:	https://www.doi.org/10.1016/j.fluid.2019.03.016
Activity coefficients at infinite dilution of organic solutes in the ionic liquid 1-ethyl-3-methylimidazolium tetracyanoborate [EMIM][TCB] using gas-liquid chromatography:	https://www.doi.org/10.1016/j.jct.2010.02.006
Measurements and equation-of-state modelling of thermodynamic properties of binary mixtures of 1-butyl-1-methylpyrrolidinium tetracyanoborate ionic liquid with molecular compounds:	https://www.doi.org/10.1016/j.jct.2015.06.004
Total vapour pressure and excess Gibbs energy for binary mixtures of [illegible] benzene at nine temperatures:	https://www.doi.org/10.1016/j.fluid.2004.02.021
Thermodynamics and activity coefficients at infinite dilution measurements for organic solutes and water in the ionic liquid 1-butyl-1-methylpyrrolidinium tetracyanoborate:	https://www.doi.org/10.1016/j.jct.2011.06.007
Measurement and Correlation of the Dissolution Equilibria of o-Iodoaniline [illegible] Solvents:	https://www.doi.org/10.1021/acs.jced.7b00840
Molar Excess Volume of sec- and tert-Butyl Chloride with Aromatic Hydrocarbons at T = 298.15 K:	https://www.doi.org/10.1021/je7002918

(Vapour + liquid) equilibria of ternary systems with ionic liquids using headspace gas chromatography:	https://www.doi.org/10.1016/j.jct.2010.03.023
Thermodynamics and activity coefficients at infinite dilution for organic solutes and water in the ionic liquid 1-butyl-1-methylmorpholinium tricyanomethanide	https://www.doi.org/10.1016/j.jct.2013.08.030
Volumetric behavior of the ternary system benzene + 2-methoxy-2-methylbutane + 2,2,4-trimethylpentane and all binary sub-systems at temperature range (298.15 - 318.15) K:	https://www.doi.org/10.1016/j.fluid.2012.09.007
KDB Vapor Pressure Data:	https://www.cheric.org/research/kdb/hcprop/showprop.php?cmpid=651
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Selective recovery of aliphatics from aromatics in the presence of the {[4empy][Tf2N] + [emim][DCA]} ionic liquid mixture:	https://www.doi.org/10.1016/j.jct.2015.12.033

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Liquid-Liquid Equilibrium data for the ternary systems of Water, Isopropyl alcohol and selected entrainers:	https://www.doi.org/10.1021/acs.jced.5b00542
Solubility of 1-Alkyl-3-methylimidazolium Hexafluorophosphate in Hydrocarbons:	https://www.doi.org/10.1021/je020145g
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Activity coefficients at infinite dilution and physicochemical properties for organic solutes and water in the ionic liquid 1-(3-hydroxypropyl)pyridinium bis(trifluoromethylsulfonyl)-amide:	https://www.doi.org/10.1016/j.jct.2011.04.018
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Isothermal Phase Equilibria and Excess Molar Enthalpies for Binary Systems with Dimethyl Ether at 323.15 K:	https://www.doi.org/10.1021/je700174h
Selective Separation of Aromatics from Paraffins and Cycloalkanes Using Morpholinium-Based Ionic Liquid:	https://www.doi.org/10.1021/je501008b
Application of trihexyltetradecylphosphonium dicyanamide ionic liquid for various types of separations problems: Activity coefficients at infinite dilution measurements utilizing GLC method:	https://www.doi.org/10.1016/j.fluid.2019.03.023
Measurements of activity coefficients at infinite dilution of aromatic and aliphatic hydrocarbons, alcohols, and water in the new ionic liquid [EMIM][SCN] using GLC:	https://www.doi.org/10.1016/j.jct.2008.01.004
Measurement and Prediction of Solubility of Four Arylamine Molecules in Benzene, Hexane and Methanol:	https://www.doi.org/10.1021/je0495785
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Enthalpies of Vaporization and Vapor Pressures of Some Deuterated Hydrocarbons. Liquid-Vapor Pressure Isotope Effects:	https://www.doi.org/10.1021/je800091s
Activity Coefficients at Infinite Dilution of Organic Compounds in Trihexyl(tetradecyl)phosphonium Bis(trifluoromethylsulfonyl)imide Using Inverse Gas Chromatography:	https://www.doi.org/10.1021/je800754w
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Standard reference data for the air-liquid and vapor-liquid surface tension of benzene:	https://www.doi.org/10.1016/j.fluid.2013.07.053
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Densities and Viscosities of Binary Mixtures of Methyl 4-Chlorobutyrate with Aromatic Hydrocarbons at T = (298.15 to 318.15) K:	https://www.doi.org/10.1021/je900194v
Activity coefficients at infinite dilution of organic solutes in the ionic liquid 1-ethyl-3-methylimidazolium methanesulfonate:	https://www.doi.org/10.1016/j.fluid.2010.10.008
Viscometric and Volumetric Properties of 10 Regular Binary Systems at 308.15 K and 313.15 K:	https://www.doi.org/10.1007/s10765-009-0667-2
Activity coefficients at infinite dilution measurements for organic solutes and water in the ionic liquid triethylsulphonium bis(trifluoromethylsulfonyl)imide:	https://www.doi.org/10.1016/j.jct.2008.12.005
Liquid-liquid equilibria in the ternary systems {hexadecane + BTX aromatics + 2-methoxyethanol or acetonitrile} at 298.15 K:	https://www.doi.org/10.1016/j.fluid.2015.01.002
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Vapor–Liquid Equilibrium for Benzene + 2-Methylpentane and Allyl Alcohol + 2-Propanol:	https://www.doi.org/10.1021/je0499519
Solid–Liquid Phase Equilibrium of Phosphoramidic acid, N,N'-1,2-Ethanediylbis-P,P,P',P'-tetraphenyl Ester in Selected Solvents:	https://www.doi.org/10.1021/je5010565
Activity coefficients at infinite dilution measurements for organic solutes in the ionic liquid 1-butyl-3-methyl-imidazolium 2-(2-methoxyethoxy) ethyl sulfate using g.l.c. at T = (298.15, 303.15, and 308.15) K:	https://www.doi.org/10.1016/j.jct.2005.01.015
Densities of Ionic Liquids, 1-Butyl-3-methylimidazolium Hexafluorophosphate and 1-Butyl-3-methylimidazolium Tetrafluoroborate, with Benzene, Acetonitrile, and 1-Propanol at T = (293.15 to 343.15) K:	https://www.doi.org/10.1021/je700266n
Activity Coefficients at Infinite Dilution of Organic Compounds in [illegible] Using [illegible] Gas Chromatography:	https://www.doi.org/10.1021/je800658v
Measuring Surface Tension of Liquids at High Temperature and Elevated Pressure:	https://www.doi.org/10.1021/je700578f
Densities of Ionic Liquid [BMIM][BF4] + Ethanol, + Benzene, and + Acetonitrile at Different Temperature and Pressure:	https://www.doi.org/10.1021/je900048r
Separation of aliphatic from aromatic hydrocarbons and sulphur compounds from fuel based on measurements of activity coefficients at infinite dilution for organic solutes and water in the ionic liquid N,N-diethyl-N-methyl-N-(2-methoxyethyl)ammonium [illegible]:	https://www.doi.org/10.1016/j.jct.2016.07.017
Measurements of activity coefficients at infinite dilution for organic solutes and water in N-hexylisoquinolinium thiocyanate, [HiQuin][SCN] using GLC:	https://www.doi.org/10.1016/j.jct.2013.02.004
Activity coefficients at infinite dilution of organic solutes in [illegible] 298.15 K:	https://www.doi.org/10.1016/j.jct.2015.02.023
Thermodynamic properties of chiral [illegible]:	https://www.doi.org/10.1016/j.jct.2010.12.004
Activity coefficients at infinite dilution of organic solutes in the ionic liquid 1-butyl-3-methylimidazolium methyl sulfate:	https://www.doi.org/10.1016/j.jct.2014.04.020
Activity Coefficients at Infinite Dilution of Various Solutes in Tetrapropylammonium Bromide + 1,6-Hexanediol Deep Eutectic Solvent:	https://www.doi.org/10.1021/acs.jced.8b00600
Determination of Activity Coefficients at Infinite Dilution of Solutes in the Ionic Liquid 1-Butyl-3-methylimidazolium Octyl Sulfate Using Gas–Liquid Chromatography at a Temperature of 298.15 K, 313.15 K, or 328.15 K:	https://www.doi.org/10.1021/je0500375
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High selectivity water/butan-1-ol separation on investigation of limiting activity coefficients with [P8,8,8,8][NTf2] ionic liquid:	https://www.doi.org/10.1016/j.fluid.2017.06.001
Thermodynamics and selectivity of separation based on activity coefficients at infinite dilution of various solutes in 1-allyl-3-methylimidazolium bis{(trifluoromethyl)sulfonyl}imide ionic liquid:	https://www.doi.org/10.1016/j.jct.2016.06.028
Influence of temperature on the (liquid + liquid) equilibria of {methanol + benzene + n-hexane} ternary system:	https://www.doi.org/10.1016/j.fluid.2011.02.022
Ternary Liquid–Liquid Equilibria Measurement for Benzene + Cyclohexane + N-Methylimidazole, or N-Ethylimidazole, or N-Methylimidazolium Dibutylphosphate at 298.2 K and Atmospheric Pressure:	https://www.doi.org/10.1021/je800376f
Liquid–liquid equilibrium of ternary systems 1-octyl-3-methylimidazolium hexafluorophosphate + aromatic + [illegible]:	https://www.doi.org/10.1016/j.fluid.2010.01.026
Activity coefficients at infinite dilution of organic solutes in diethylene glycol and triethylene glycol from gas liquid chromatography:	https://www.doi.org/10.1016/j.jct.2013.05.011
Activity Coefficients at Infinite Dilution of Alkanes, Alkenes, and Alkyl Benzenes in Glycerol Using Gas-Liquid Chromatography:	https://www.doi.org/10.1021/je900686n
Measurements of activity coefficient at infinite dilution for organic solutes in tetramethylammonium chloride + ethylene glycol deep eutectic solvent using gas-liquid chromatography:	https://www.doi.org/10.1016/j.fluid.2018.01.019
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Liquid–Liquid Equilibria Measurement of Systems Involving Alkanes (Heptane and Dodecane), Aromatics (Benzene or Toluene), and Furfural:	https://www.doi.org/10.1021/je100908f
Measurements of Activity Coefficients at Infinite Dilution for Organic Solutes and Water in the Ionic Liquid 1-Butyl-1-methylpiperidinium Thiocyanate:	https://www.doi.org/10.1021/je101008y
Measurement of (liquid + liquid) equilibria for ternary systems of (N-formylmorpholine + benzene + cyclohexane) at temperatures (303.15, 308.15, and 313.15) K:	https://www.doi.org/10.1016/j.jct.2011.01.011
Liquid–Liquid Equilibrium in the Ternary Systems Water + Cyclohexanone + Benzene or Methyl Isobutyl Carbinol at 303.15 and 323.15 K: Experimental Data and Correlation:	https://www.doi.org/10.1021/acs.jced.7b00511
The ionic liquid 1-ethyl-3-methylimidazolium tris(pentafluoroethyl) trifluorophosphate as alternative extractant for BTEX separation:	https://www.doi.org/10.1016/j.fluid.2015.06.046
Ternary (liquid + liquid) equilibria of nitrate based ionic liquid + alkane + benzene at 298.15 K: Experiments and correlation:	https://www.doi.org/10.1016/j.fluid.2012.12.025
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Densities, Viscosities, and Thermodynamic Properties of (N,N-Dimethylformamide + Benzene + Chlorobenzene) Ternary Mixtures at (298.15, 303.15, 308.15, and 313.15) K:	https://www.doi.org/10.1021/je030130y
Thermodynamics and activity coefficients at infinite dilution for organic compounds and water in the ionic liquid 1-butyl-3-methylimidazolium perchlorate:	https://www.doi.org/10.1016/j.jct.2017.07.012
Activity coefficients at infinite dilution of organic solutes in the ionic liquid, methyl(trioctyl)ammonium thiosalicylate, [N1888][TS] by gas liquid chromatography at T = (303.15, 313.15, and 323.15) K:	https://www.doi.org/10.1016/j.jct.2010.12.020

Measurement and Correlation of Bubble Point Pressure in (CO_2 + C_6H_6), (CO_2 + $CH_3C_6H_5$), (CO_2 + C_6H_{14}), and (CO_2 + C_7H_{16}) at Temperatures from (293.15 to 313.15) K	https://www.doi.org/10.1021/je900312z
Isothermal vapor-liquid equilibrium at 323.15K and excess molar volumes and refractive indices at 298.15K for the ternary system propyl vinyl ether + 1-propanol + benzene and its binary subsystems	https://www.doi.org/10.1016/j.fluid.2008.09.005
Density and Surface Tension of Binary Mixtures of 2,2,4-Trimethylpentane + n-Heptane, 2,2,4-Trimethylpentane + Ethyl Acetate + Benzene, and Butanenitrile + Benzene from (293.15 to 323.15) K	https://www.doi.org/10.1021/acs.jced.5b00009
Diffusion Coefficients of Aromatic Compounds at Infinite Dilution in [illegible]	https://www.doi.org/10.1021/je060289l
Liquid-liquid) equilibria of (sulfolane + benzene + n-hexane), (N-formylmorpholine + benzene + n-hexane), and (sulfolane + N-formylmorpholine + benzene + n-hexane) at temperatures ranging from 298.15 to 318.15 K: Experimental [illegible]	https://www.doi.org/10.1016/j.jct.2009.10.010
Screening of environmental friendly ionic liquid as a solvent for the different types of separations problem: [illegible] technique:	https://www.doi.org/10.1016/j.jct.2015.08.017
Influence of Temperature on Thermodynamic Properties of Methyl [illegible]	https://www.doi.org/10.1007/s10765-007-0223-x
Determination of Infinite Dilution Activity Coefficients of Several Organic Solutes in N-Butylpyridinium Nitrate/N-Octylpyridinium Nitrate by Blend Inverse Gas Chromatography:	https://www.doi.org/10.1021/acs.jced.7b00244
Densities and Excess Molar Volumes of the Ternary Mixture 2-Butanol + Chloroform + Benzene and Binary Mixtures 2-Butanol + Chloroform, or + Benzene over the Temperature Range (288.15 to 318.15) K	https://www.doi.org/10.1021/je800157v
Measurement of activity coefficients at infinite dilution of organic solutes in [illegible]	https://www.doi.org/10.1016/j.jct.2013.10.017
Correlation and prediction of the phase behavior and thermal properties of [illegible]	https://www.doi.org/10.1016/j.tca.2013.01.028
Activity coefficients at infinite dilution of organic solutes in the ionic liquid [illegible]	https://www.doi.org/10.1016/j.jct.2009.07.010
Effective extraction of benzene and thiophene by novel deep eutectic [illegible]	https://www.doi.org/10.1016/j.fluid.2018.11.025
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Activity coefficients at infinite dilution [illegible]	https://www.doi.org/10.1016/j.jct.2008.09.004
Liquid Viscosities of the Ternary System Benzene + Cyclohexane + [illegible]	https://www.doi.org/10.1021/je8009122
Separation of binary mixtures based on gamma infinity data using [illegible]	https://www.doi.org/10.1016/j.jct.2017.12.012
[illegible]	http://link.springer.com/article/10.1007/BF02311772
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Activity coefficients at infinite dilution for solutes in the [illegible] trioctylmethylammonium bis(trifluoromethylsulfonyl)imide ionic liquid using gas-liquid chromatography	https://www.doi.org/10.1016/j.jct.2009.08.012
Solid–Liquid Equilibria for Binary Organic Systems Containing 1-Methoxy-2-propanol and 2-Butoxy Ethanol	https://www.doi.org/10.1021/je060229f
[illegible]	https://www.cheric.org/research/kdb/hcprop/showprop.php?cmpid=651
Solubility of Alkylbenzenes and a Model for Predicting the Solubility of Liquid Organics in High-Temperature Water	https://www.doi.org/10.1021/je034235c
Fusion Curves and Enthalpy and Internal Energy Changes of Benzene, Nitrobenzene, Bromobenzene, and Chlorobenzene at Pressures up to 3500 MPa	https://www.doi.org/10.1021/je700276z
Liquid–liquid equilibria for mixtures of (Furfural + an Aromatic hydrocarbon + an alkane) at T=298.15 K	https://www.doi.org/10.1021/je010317u
Activity coefficients at infinite dilution for hydrocarbons in furfuryl alcohol at T=(278.15 and 298.15) K, determined by [illegible]	https://www.doi.org/10.1016/j.jct.2004.03.001
Vapor-liquid equilibria for n-heptane + (benzene, toluene, p-xylene, or ethylbenzene) + [illegible]	https://www.doi.org/10.1016/j.fluid.2016.02.018
Activity coefficients at infinite dilution of organic solvents and water in [illegible] binary ionic liquid mixture [illegible]	https://www.doi.org/10.1016/j.fluid.2016.02.004
Ternary Liquid–Liquid Equilibria for Mixtures of an Aromatic + an Aliphatic [illegible]	https://www.doi.org/10.1021/je060198o
Thermodynamic Properties of Mixtures Containing Ionic Liquids. 8. Activity Coefficients at Infinite Dilution of Hydrocarbons, Alcohols, Esters, and Aldehydes in [illegible]	https://www.doi.org/10.1021/je0503554
[illegible] parameters in binary liquid mixtures of phosphinic [illegible]	https://www.doi.org/10.1016/j.jct.2004.12.001
Phase equilibria properties of binary and ternary systems containing [illegible]	https://www.doi.org/10.1016/j.fluid.2005.11.017
[illegible] Using Gas-Liquid Chromatography: benzene (methanol + water):	https://www.doi.org/10.1016/j.fluid.2004.12.003

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Solubilities of Phosphorus-Containing Compounds in Selected Solvents:	https://www.doi.org/10.1021/je100341q
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p-V-T measurements of (octane + benzene) at temperatures from (298.15 to 328.15) K and at pressures up to 40 MPa:	https://www.doi.org/10.1016/j.jct.2007.11.009
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Phase equilibria of three binary systems containing [illegible]	https://www.doi.org/10.1016/j.fluid.2015.09.030
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Separation abilities of three acetate-based ionic liquids for benzene-cyclohexane mixture through vapor-liquid equilibrium experiment at 101.3 kPa:	https://www.doi.org/10.1016/j.fluid.2019.03.022
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Activity Coefficients at Infinite Dilution of Alkanes, Alkenes, and Alkyl Benzenes in 1-(2-Hydroxyethyl)-3-methylimidazolium Tetrafluoroborate Using Gas-Liquid Chromatography:	https://www.doi.org/10.1021/je9002724
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Liquid-Liquid Equilibria of Ternary and Six-Component Systems Including [illegible]	https://www.doi.org/10.1021/je060153n
Densities, Viscosities, and Refractive Indices of Binary Mixtures of Anisole [illegible]	https://www.doi.org/10.1021/je0502546
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Activity Coefficients at Infinite Dilution [illegible] Cubic-Plus-Association (CPA) Equation of State	https://www.doi.org/10.1021/je200195q
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Temperature dependence of densities, speeds of sound and derived properties of cyclohexylamine + cyclohexane or benzene in the range (293.15 to 323.15) K:	https://www.doi.org/10.1016/j.tca.2012.08.011

Legend

af:	Acentric Factor
affp:	Proton affinity
aigt:	Autoignition Temperature
basg:	Gas basicity
cpg:	Ideal gas heat capacity
cpl:	Liquid phase heat capacity
cps:	Solid phase heat capacity
dm:	Dipole Moment

dvisc: Dynamic viscosity
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
hsub: Enthalpy of sublimation at standard conditions
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
psub: Sublimation 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
sl: Liquid phase molar entropy at standard conditions
speedsl: Speed of sound in fluid
srf: Surface Tension
ss: Solid phase molar entropy at standard conditions
tb: Normal Boiling Point Temperature
tbp: Boiling point at given pressure
tc: Critical Temperature
tcondl: Liquid thermal conductivity
tf: Normal melting (fusion) point
tfp: Melting point
vc: Critical Volume
vols: Specific Volume

zc: Critical Compressibility
zra: Rackett Parameter