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	746.40	kJ/mol	NIST Webbook

affp	750.40	kJ/mol	NIST Webbook
aigt	864.82	K	KDB
basg	725.40	kJ/mol	NIST Webbook
basg	721.70	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	82.80	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
hf	82.98	kJ/mol	KDB
hfl	49.00 ± 0.90	kJ/mol	NIST Webbook
hfl	46.00	kJ/mol	NIST Webbook
hfl	48.95 ± 0.54	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	9.24 ± 0.02	eV	NIST Webbook
ie	9.24 ± 0.00	eV	NIST Webbook
ie	9.20	eV	NIST Webbook
ie	9.25	eV	NIST Webbook
ie	9.24 ± 0.00	eV	NIST Webbook
ie	9.44	eV	NIST Webbook
ie	9.24 ± 0.00	eV	NIST Webbook
ie	9.24 ± 0.00	eV	NIST Webbook
ie	9.23	eV	NIST Webbook
ie	9.24	eV	NIST Webbook

ie	9.24	eV	NIST Webbook
ie	9.20	eV	NIST Webbook
ie	9.24	eV	NIST Webbook
ie	9.25 ± 0.03	eV	NIST Webbook
ie	9.24	eV	NIST Webbook
ie	9.24	eV	NIST Webbook
ie	9.23	eV	NIST Webbook
ie	9.24	eV	NIST Webbook
ie	9.24	eV	NIST Webbook
ie	9.25 ± 0.05	eV	NIST Webbook
ie	9.25	eV	NIST Webbook
ie	9.30	eV	NIST Webbook
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ie	9.22	eV	NIST Webbook
ie	9.25	eV	NIST Webbook
ie	9.25	eV	NIST Webbook
ie	9.23	eV	NIST Webbook
ie	9.24 ± 0.01	eV	NIST Webbook
ie	9.80 ± 0.10	eV	NIST Webbook
ie	9.25 ± 0.01	eV	NIST Webbook
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ie	9.26 ± 0.06	eV	NIST Webbook
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ie	9.25	eV	NIST Webbook

ie	9.70	eV	NIST Webbook
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ie	9.25 ± 0.07	eV	NIST Webbook
ie	9.25 ± 0.02	eV	NIST Webbook
ie	9.24	eV	NIST Webbook
ie	9.22	eV	NIST Webbook
ie	9.25	eV	NIST Webbook
ie	9.25 ± 0.00	eV	NIST Webbook
log10ws	-1.64		Estimated Solubility Method
log10ws	-1.64		Aqueous Solubility Prediction Method
logp	1.687		Crippen Method
mcvol	71.640	ml/mol	McGowan Method
nfpaf	%!d(float64=3)		KDB
nfpah	%!d(float64=2)		KDB
pc	4900.00 ± 10.00	kPa	NIST Webbook
pc	4889.00 ± 3.00	kPa	NIST Webbook
pc	4887.00 ± 3.00	kPa	NIST Webbook
pc	4897.00 ± 10.00	kPa	NIST Webbook
pc	4898.00 ± 2.00	kPa	NIST Webbook
pc	4875.75 ± 30.00	kPa	NIST Webbook
pc	4884.00 ± 20.00	kPa	NIST Webbook
pc	4894.00 ± 10.00	kPa	NIST Webbook
pc	4895.00	kPa	KDB
pc	6120.00 ± 709.28	kPa	NIST Webbook
pc	4852.27 ± 39.99	kPa	NIST Webbook
pc	4910.00 ± 4.90	kPa	NIST Webbook
pc	5020.00 ± 101.33	kPa	NIST Webbook
pc	4852.30 ± 53.33	kPa	NIST Webbook
pc	4930.90 ± 40.00	kPa	NIST Webbook
pc	4875.00 ± 27.58	kPa	NIST Webbook
pc	4898.00 ± 10.13	kPa	NIST Webbook
pc	4853.47 ± 50.66	kPa	NIST Webbook
pc	4936.65 ± 55.15	kPa	NIST Webbook
pc	4892.00 ± 8.10	kPa	NIST Webbook
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pc	4896.00 ± 10.34	kPa	NIST Webbook
pc	4895.00 ± 6.00	kPa	NIST Webbook
pc	4885.89 ± 4.05	kPa	NIST Webbook
pc	4885.89 ± 5.06	kPa	NIST Webbook
pc	4900.00 ± 50.66	kPa	NIST Webbook
pc	4898.00 ± 5.00	kPa	NIST Webbook
rhoc	304.64 ± 0.47	kg/m3	NIST Webbook
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ripol	973.30		NIST Webbook
sl	175.30	J/mol×K	NIST Webbook
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tb	353.16	K	Vapor-Liquid Equilibria of the Binary System 1-Pentanol + Anisole and the Quaternary System Benzene+Cyclohexane+1-Pentanol+Anisc at 101.32 kPa
tb	353.25	K	Vapor-Liquid Equilibrium for Binary Systems of Allyl Alcohol + Water and Allyl Alcohol + Benzene at 101.3 kPa
tb	353.26	K	Isobaric vapor-liquid equilibrium for binary system of cinnamaldehyde + benzaldehyde at 10, 20 and 30 kPa
tb	353.30	K	Isobaric vapor-liquid equilibrium for binary systemsof toluene + o-xylene, benzene + o-xylene, nonane + benzene and nonane + heptane at 101.3 kPa
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tc	562.10 ± 0.30	K	NIST Webbook
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vc	0.256	m3/kmol	KDB
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

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	113.93	J/mol×K	402.30	NIST Webbook
cpg	123.39	J/mol×K	436.15	NIST Webbook
cpg	145.59 ± 0.09	J/mol×K	527.15	NIST Webbook
cpg	139.47 ± 0.08	J/mol×K	500.15	NIST Webbook
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
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cpg	123.93 ± 0.07	J/mol×K	438.15	NIST Webbook
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cpg	117.60 ± 1.30	J/mol×K	417.00	NIST Webbook
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cpg	110.88	J/mol×K	390.00	NIST Webbook
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cpg	104.77	J/mol×K	371.20	NIST Webbook
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cpg	97.99 ± 0.06	J/mol×K	348.15	NIST Webbook
cpg	95.81	J/mol×K	341.60	NIST Webbook
cpg	93.32 ± 0.06	J/mol×K	333.15	NIST Webbook
cpg	105.02	J/mol×K	370.00	NIST Webbook
cpl	135.30	J/mol×K	300.00	NIST Webbook
cpl	135.90	J/mol×K	298.50	NIST Webbook
cpl	134.98	J/mol×K	298.00	NIST Webbook
cpl	135.10	J/mol×K	316.00	NIST Webbook
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cpl	130.00	J/mol×K	298.00	NIST Webbook
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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	136.62	J/mol×K	303.15	Excess Heat Capacities of Binary and Ternary Mixtures Containing 1-Ethyl-3-methylimidazolium Tetrafluoroborate and Anilines
cpl	134.80	J/mol×K	295.15	Measurement of heat capacities of ionic liquids by differential scanning calorimetry
cpl	135.40	J/mol×K	300.15	Measurement of heat capacities of ionic liquids by differential scanning calorimetry
cpl	136.06	J/mol×K	298.15	NIST Webbook

cpl	137.90	J/mol×K	310.15	Measurement of heat capacities of ionic liquids by differential scanning calorimetry
cpl	139.20	J/mol×K	315.15	Measurement of heat capacities of ionic liquids by differential scanning calorimetry
cpl	140.85	J/mol×K	320.15	Measurement of heat capacities of ionic liquids by differential scanning calorimetry
cpl	142.50	J/mol×K	325.15	Measurement of heat capacities of ionic liquids by differential scanning calorimetry
cpl	144.15	J/mol×K	330.15	Measurement of heat capacities of ionic liquids by differential scanning calorimetry
cpl	145.80	J/mol×K	335.15	Measurement of heat capacities of ionic liquids by differential scanning calorimetry
cpl	147.55	J/mol×K	340.15	Measurement of heat capacities of ionic liquids by differential scanning calorimetry
cpl	149.30	J/mol×K	345.15	Measurement of heat capacities of ionic liquids by differential scanning calorimetry
cpl	151.20	J/mol×K	350.15	Measurement of heat capacities of ionic liquids by differential scanning calorimetry
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	136.50	J/mol×K	305.15	Measurement of heat capacities of ionic liquids by differential scanning calorimetry
cpl	137.40	J/mol×K	303.15	NIST Webbook
cps	47.86	J/mol×K	90.00	NIST Webbook
cps	97.90	J/mol×K	223.90	NIST Webbook
cps	118.40	J/mol×K	273.00	NIST Webbook
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	Density and Viscosity of Propyl Formate + Aromatic Hydrocarbons at T = (303.15, 308.15, and 313.15) K
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	0.0005340	Pa×s	308.15	Density and Viscosity of Propyl Formate + Aromatic Hydrocarbons at T = (303.15, 308.15, and 313.15) K
dvisc	0.0005690	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	0.0006010	Pa×s	298.15	Densities and Viscosities of N-Formylmorpholine + Benzene, + Toluene at Different Temperatures and Atmospheric Pressures
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	0.0005710	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	0.0005260	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	0.0005000	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	0.0005310	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	0.0006030	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	0.0005620	Pa×s	303.15	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	0.0005630	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	0.0004970	Pa×s	313.15	Density and Viscosity of Propyl Formate + Aromatic Hydrocarbons at T = (303.15, 308.15, and 313.15) K
dvisc	0.0004942	Pa×s	313.15	Viscometric and Volumetric Properties of 10 Regular Binary Systems at 308.15 K 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	0.0004930	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	9.92	kJ/mol	278.65	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	9.88	kJ/mol	278.55	NIST Webbook
hfust	9.94	kJ/mol	278.60	NIST Webbook
hfust	9.80	kJ/mol	278.60	NIST Webbook
hfust	10.00	kJ/mol	278.64	NIST Webbook
hsubt	45.60	kJ/mol	244.50	NIST Webbook
hsubt	45.20	kJ/mol	251.00	NIST Webbook
hsubt	41.70	kJ/mol	265.50	NIST Webbook
hsubt	53.90 ± 0.80	kJ/mol	193.00	NIST Webbook
hsubt	49.40 ± 0.40	kJ/mol	193.00	NIST Webbook
hsubt	44.60	kJ/mol	273.00	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	38.00	kJ/mol	303.00	NIST Webbook
hsubt	46.60	kJ/mol	266.50	NIST Webbook

hsubt	43.30	kJ/mol	226.00	NIST Webbook
hsubt	45.10	kJ/mol	278.00	NIST Webbook
hvapt	31.40 ± 0.10	kJ/mol	343.00	NIST Webbook
hvapt	34.10	kJ/mol	319.00	NIST Webbook
hvapt	31.60 ± 0.40	kJ/mol	345.00	NIST Webbook
hvapt	32.50 ± 0.50	kJ/mol	328.00	NIST Webbook
hvapt	32.60 ± 0.40	kJ/mol	313.00	NIST Webbook
hvapt	30.90 ± 0.10	kJ/mol	353.00	NIST Webbook
hvapt	34.10	kJ/mol	293.00	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	33.00 ± 0.10	kJ/mol	313.00	NIST Webbook
hvapt	31.00	kJ/mol	350.00	NIST Webbook
hvapt	35.30	kJ/mol	343.00	NIST Webbook
hvapt	30.20	kJ/mol	366.00	NIST Webbook
hvapt	30.76	kJ/mol	353.30	KDB
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	31.50	kJ/mol	387.50	NIST Webbook
hvapt	34.40	kJ/mol	328.00	NIST Webbook
hvapt	30.60	kJ/mol	353.00	NIST Webbook
hvapt	31.40	kJ/mol	344.00	NIST Webbook
hvapt	31.90	kJ/mol	332.00	NIST Webbook
hvapt	33.10	kJ/mol	314.00	NIST Webbook
hvapt	34.10	kJ/mol	318.00	NIST Webbook
hvapt	34.50	kJ/mol	310.50	NIST Webbook
hvapt	33.40	kJ/mol	307.00	NIST Webbook
hvapt	31.20	kJ/mol	294.00	NIST Webbook
hvapt	35.60	kJ/mol	285.50	NIST Webbook
hvapt	33.20	kJ/mol	325.00	NIST Webbook
hvapt	30.72	kJ/mol	353.30	NIST Webbook
hvapt	34.10	kJ/mol	321.00	NIST Webbook
hvapt	33.40	kJ/mol	335.50	NIST Webbook
hvapt	33.25	kJ/mol	298.00	Enthalpies of Vaporization and Vapor Pressures of Some Deuterated Hydrocarbons. Liquid-Vapor Pressure Isotope Effects
hvapt	33.50	kJ/mol	336.50	NIST Webbook
hvapt	32.40	kJ/mol	324.00	NIST Webbook

psub	0.16	kPa	238.21	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	0.21	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	0.42	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	0.53	kPa	250.68	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	0.81	kPa	255.67	Recommended sublimation pressure and enthalpy of benzene
psub	0.81	kPa	255.67	Recommended sublimation pressure and enthalpy of benzene
psub	0.81	kPa	255.67	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	1.23	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	0.34	kPa	245.68	Recommended sublimation pressure and enthalpy of benzene
psub	1.00	kPa	258.16	Recommended sublimation pressure and enthalpy of benzene

pvap	73.35	kPa	343.15	Vapor-liquid equilibrium for the binary mixtures of dipropylene glycol with aromatic hydrocarbons: Experimental and regression
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	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	750.14	kPa	435.40	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	101.33	kPa	353.27	Isobaric Vapor Liquid Equilibrium for Binary and Ternary Systems of Isoamyl Alcohol + Isoamyl Acetate + Dimethyl Sulfoxide at 101.33 kPa
pvap	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	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	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	101.33	kPa	353.15	Phase equilibria of three binary systems containing 2,5-dimethylthiophene and 2-ethylthiophene in hydrocarbons
pvap	100.91	kPa	353.15	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	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	62.01	kPa	338.15	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	43.51	kPa	328.15	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	29.73	kPa	318.15	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	19.71	kPa	308.15	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	12.64	kPa	298.15	Vapor-liquid equilibrium for the binary mixtures of dipropylene glycol with aromatic hydrocarbons: Experimental and regression
pvap	101.33	kPa	353.26	Isobaric vapor-liquid equilibrium for binary system of cinnamaldehyde + benzaldehyde at 10, 20 and 30 kPa
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	62.10	kPa	338.15	Phase equilibria and excess molar enthalpies study of the binary systems (pyrrole + hydrocarbon, or an alcohol) and modeling

pvap	101.30	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	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	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	93.32	kPa	350.50	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	66.66	kPa	340.06	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	40.00	kPa	325.60	Determination and correlation of vapor liquid equilibrium for binary systems consisting of close-boiling components
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	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	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	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	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	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	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
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	9.98	kPa	293.15	Vapor-liquid equilibrium for the binary mixtures of dipropylene glycol with aromatic hydrocarbons: Experimental and regression
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	1.49774		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	1.50765		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	1.50110		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	1.48870	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	1.50420	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	
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	1.49740	298.15	Experimental Isobaric Vapor-Liquid Equilibria of Binary Mixtures of 2,2,2-Trifluoroethanol with Benzene or Toluene

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	1.49470	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	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	1.50150	293.15	Infinite Dilution Activity Coefficients of Hydrocarbons in Triethylene Glycol and Tetraethylene Glycol
rfi	1.49900	298.15	Liquid-liquid equilibria for mixtures of (Furfural + an Aromatic hydrocarbon + an alkane) at T=298.15 K
rfi	1.49774	298.15	Thermophysical properties of the binary mixtures of 2-methyl-tetrahydrofuran with benzene and halobenzenes

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	1.49790	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	1.50090	298.15	Effects of the presence of ethylacetate or benzene on the densities and volumetric properties of mixture (styrene + N,N-dimethylformamide)
rfi	1.50240	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	293.10	A study on densities and excess volumes in the (c-butyrolactone + aromatic hydrocarbon) system at various temperatures
rfi	1.50090	298.15	Densities and excess volumes of binary mixtures of N,N-dimethylformamide 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	293.10	Densities and volumetric properties of N-methyl-2-pyrrolidone with aromatic hydrocarbon at different temperature
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	1.49790	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	1.50110	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	1.50500	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	1.49030	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	1.49360	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	1.49710	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	1.49792	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	1.49790	298.15	Excess Molar Volumes of (propiophenone + benzene, or toluene, or ethylbenzene, or butylbenzene) at temperatures 298.15 K and 328.15 K
rfi	1.50090	293.15	A study of densities and volumetric properties of binary mixtures containing nitrobenzene at T = (293.15 to 353.15) K
rfi	1.50090	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	1.50090	293.15	Effect of temperature on the volumetric properties of (cyclohexanone + an aromatic hydrocarbon)
rfi	1.49774	298.15	Experimental data, correlation and prediction of the extraction of benzene from cyclic hydrocarbons using [Epy][ESO4] ionic liquid

rfi	1.49764	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	1.49785	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	1.49810	298.15	Separation of aromatic hydrocarbons from alkanes using ammonium ionic liquid C2NTf2 at T = 298.15K
rfi	1.38820	293.10	Liquid liquid equilibria of methylcyclohexane benzene N-formylmorpholine at several temperatures
rfi	1.49210	308.15	Topological and thermodynamic investigations of molecular interactions in binary mixtures: Molar excess volumes and molar excess enthalpies

rfi	1.49290	313.15	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	1.49692	298.15	Azeotropic behaviour of (benzene + cyclohexane + chlorobenzene) ternary mixture using chlorobenzene as entrainer at 101.3 kPa	
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	1.49790	298.15	Volumetric, Viscometric, Ultrasonic, and Refractive Index Properties of Liquid Mixtures of Benzene with Industrially Important Monomers 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	1.49290	313.15	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	1.49620	303.15	Densities and Refractive Indices of Binary Mixtures of Benzene with Triethylamine and Tributylamine at Different Temperatures
rfi	1.49790	298.15	Densities and Refractive Indices of Binary Mixtures of Benzene with Triethylamine and Tributylamine at Different Temperatures

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
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	862.84	kg/m3	308.15	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	873.54	kg/m3	298.15	Thermodynamic Properties of Ternary Liquid Mixtures Containing o-Chlorotoluene: Excess Molar Volumes and Excess Isentropic Compressibilities
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	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	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	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	875.47	kg/m3	298.15	Calorimetric Study of Nitrile Group-Solvent Interactions and Comparison with Dispersive Quasi-Chemical (DISQUAC) Predictions
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	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	873.64	kg/m3	298.15	Vapor-Liquid Equilibria and Excess Enthalpies for Binary Systems of Dimethoxymethane with Hydrocarbons
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	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	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	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	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	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	873.40	kg/m3	298.15	Mutual Solubility of Pyridinium-Based Tetrafluoroborates and Toluene
rhol	873.58	kg/m3	298.15	Excess Enthalpies of Chloroalkylbenzene + Alkylbenzene Mixtures

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)
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	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	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	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	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	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	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	873.58	kg/m3	298.15	Thermodynamic study of 1,1,2,2-tetrachloroethane + hydrocarbon mixtures I. Excess and solvation enthalpies
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	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	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	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	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	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	873.95	kg/m3	298.15	Liquid liquid equilibrium of ternary systems 1-butyl-3-methylimidazolium hexafluorophosphate + aromatic + aliphatic

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	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	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	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	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	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	873.54	kg/m3	298.15	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	862.84	kg/m3	308.15	Heat capacities of binary and ternary mixtures containing o-chlorotoluene, cyclic ether and aromatic hydrocarbons
rhol	873.53	kg/m3	298.15	Phase behaviour of tricyanomethanide-based ionic liquids with alcohols and 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	873.71	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	873.71	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	873.20	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	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	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	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	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	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	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	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	874.00	kg/m3	298.15	Liquid Liquid Equilibrium data for the ternary systems of Water, Isopropyl alcohol, and selected entrainers
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	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	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	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	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	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	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	873.64	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	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	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	868.30	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	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	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	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	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	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	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	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	868.20	kg/m3	303.15	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	878.89	kg/m3	293.15	Excess heat capacities of mixtures containing 1-methylpyrrolidin-2-one, chlorotoluenes and benzene
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	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	Evaluation of ionic liquids as solvent for aromatic extraction: Experimental, correlation and COSMO-RS predictions
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	873.36	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	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	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	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	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	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
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	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	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	1345.47	m/s	288.15	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	1184.63	m/s	323.15	Temperature influence on mixing properties of {ethyl tert-butyl ether (ETBE) + gasoline additives}
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	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
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	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	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	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	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	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	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	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	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	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	1298.27	m/s	298.15	Influence of Temperature on Thermodynamic Properties of Methyl t-Butyl Ether (MTBE)+Gasoline Additives	
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	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	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	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	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	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	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	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	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	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	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	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	1309.88	m/s	295.65	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	1333.44	m/s	290.65	Influence of Temperature on Thermodynamic Properties of Methyl t-Butyl Ether (MTBE)+Gasoline Additives
speedsl	1345.47	m/s	288.15	Influence of Temperature on Thermodynamic Properties of Methyl t-Butyl Ether (MTBE)+Gasoline Additives
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	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	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	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
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	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	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	293.15	Investigation of Surface Properties and Solubility of 1-Vinyl-3-alkyl/Esterimidazolium Halide Ionic Liquids by Density Functional Methods
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	310.32	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	306.00	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	300.41	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
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	0.14	W/m×K	301.87	Thermal Conductivity and Thermal Diffusivity of Twenty-Nine Liquids: Alkenes, Cyclic (Alkanes, Alkenes, Alkadienes, Aromatics), and Deuterated Hydrocarbons
tcondl	0.14	W/m×K	295.92	Thermal Conductivity and Thermal Diffusivity of Twenty-Nine Liquids: Alkenes, Cyclic (Alkanes, Alkenes, Alkadienes, Aromatics), and Deuterated Hydrocarbons

tcondl	0.13	W/m×K	319.14	Thermal Conductivity and Thermal Diffusivity of Twenty-Nine Liquids: Alkenes, Cyclic (Alkanes, Alkenes, Alkadienes, Aromatics), and Deuterated Hydrocarbons
tcondl	0.14	W/m×K	296.25	Thermal Conductivity and Thermal Diffusivity of Twenty-Nine Liquids: Alkenes, Cyclic (Alkanes, Alkenes, Alkadienes, Aromatics), and Deuterated Hydrocarbons
tcondl	0.14	W/m×K	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	0.13	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	0.11	W/m×K	392.16	Thermal Conductivity Measurement of Polyglycol Alkyl Ethers at Temperatures from (303.15 to 393.15) K
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	301.59	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	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	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	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	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
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

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

(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

Excess Molar Volumes of 2,4,6,8-Tetramethylcyclotetrasiloxane with Benzene, Toluene, and Xylene at T = (298.15, 298.15, and 308.15) K:	https://www.doi.org/10.1021/je2009736
Determination of Activity Coefficients at Infinite Dilution of Polar and Nonpolar Solutes in the Ionic Liquid 1-Ethyl-3-methylimidazolium Ethylsulfate using Gas-Liquid Chromatography at the Temperature 303.15 K or 318.15 K: 1,3-Dioxane + 2-Methylimidazolium Ethylsulfate:	https://www.doi.org/10.1016/j.jct.2014.12.005
Phase equilibria study of binary systems comprising an ionic liquid + 1-butanol + water: 1-butanol based extraction of methylsulfonylmidate:	https://www.doi.org/10.1016/j.jct.2017.10.003
Boiling apparatus for rapid boiling point determination:	https://www.doi.org/10.1016/j.tca.2017.05.005
Effect of the Chain Length on the Aromatic Ring in the Separation of Aromatic Compounds from Methylcyclohexane Using the Ionic Liquid 2-Ethyl-3-methylimidazolium Ethylsulfate:	https://www.doi.org/10.1021/je900807v
Application of a DSC based vapor pressure method for examining the activity coefficients and binary volumes in the 2-butanone + alkane mixtures at a mixture composition of 0.5:	https://www.doi.org/10.1016/j.tca.2016.05.011
Effect of the structure of the cation in the ionic liquid 1-butyl-3-methylpyrrolidinium methylsulfate based ionic liquids using gas-liquid chromatography: Separation of polar and nonpolar solutes in the ionic liquid 1-hexyl-2,3-dimethylimidazolium bis(trifluoromethylsulfonyl)imide: Ethanol based alcohols + hexane/hex-1-ene:	https://www.doi.org/10.1016/j.jct.2006.10.005
Measurement of heat capacities of ionic liquids by differential scanning calorimetry:	https://www.doi.org/10.1016/j.fluid.2013.09.044
Liquid-Liquid Equilibria for Binary and Ternary Systems Containing Glycols, Aromatic Hydrocarbons, and Water: Experimental Measurements and Modeling with the UNIFAC LLE:	https://www.doi.org/10.1016/j.jct.2013.07.004
Studies on thermo-acoustic parameters in binary liquid mixtures of phosphinic acid esters with alkanols at 303.15 K: a comparative study of the LLE of the quaternary and ternary systems Excess enthalpy for the (benzene + cyclohexane) mixture over a wide range of temperature and pressure: Ethanol and Benzene over the Temperature Range from 253.15 to 333.15 K at Pressures up to 30 MPa: measurements of activity coefficients at infinite dilution of hydrocarbons and 5,5-Dimethyl-2-(phenylamino)-2-(phenylamino)methyl)-1,3,2-dioxaphosphinane 2-sulfidotoluidate: Assessment of Pure Ionic Liquid for the Separation of Binary Mixtures Based on Activity Coefficients at Infinite Dilution for organic solutes and water in 1-Butyl-1-methylpyrrolidinium Chloride + Ethanol + Benzene at T = (298.15, 313.15, and 333.15) K: Thermodynamics and limiting activity coefficients measurements for organic solutes in the ionic liquid 1-(2-Hydroxyethyl)-3-methylimidazolium Bis(trifluoromethylsulfonyl)imide Activity coefficients at infinite dilution and physicochemical properties for binary systems of benzene with p-, o-, m-xylene + 3-methylimidazolium ethylsulfate mixtures: Application of the Prigogine Equation of Theory of Excess Molar Volumes of Methanol + Benzene or Toluene: Thermodynamics and selectivity of separation based on activity coefficients at infinite dilution of 2-Allyl-3-methylimidazolium Bis(trifluoromethylsulfonyl)imide ionic liquid: Excess Molar Enthalpies for the Binary Systems of Benzene or Cyclohexane with 1,1-Diethoxyethane at 323.15 K or with 2,2-Dimethoxybutane at 303.15 K and Infinite Dilution Activity Coefficients in 1,1-Diethoxyethane:	https://www.doi.org/10.1016/j.fluid.2006.03.015
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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