

Styrene

Other names:	Annamene Benzene, ethenyl- Benzene, vinyl- Bulstren K-525-19 Cinnamene Cinnamenol Cinnaminol Cinnamol Ethenylbenzene Ethylene, phenyl- NCI-C02200 NSC 62785 Phenethylene Phenylethene Phenylethylene Stirol Styreen Styren Styrene monomer Styrol Styrol (German) Styrole Styrolene Styropol SO Vinylbenzen Vinylbenzene Vinylbenzene (styrene) Vinylbenzol ethenylbenzene (styrene)
Inchi:	InChI=1S/C8H8/c1-2-8-6-4-3-5-7-8/h2-7H,1H2
InchiKey:	PPBRXRYQALVLMV-UHFFFAOYSA-N
Formula:	C8H8
SMILES:	<chem>C=Cc1ccccc1</chem>
Mol. weight [g/mol]:	104.15
CAS:	100-42-5

Physical Properties

Property code	Value	Unit	Source
af	0.2570		KDB
affp	839.50	kJ/mol	NIST Webbook
aigt	763.15	K	KDB
basg	809.20	kJ/mol	NIST Webbook
dm	0.10	debye	KDB
fll	1.10	% in Air	KDB
flu	6.10	% in Air	KDB
fpc	307.04	K	KDB
fpo	304.26	K	KDB
gf	213.90	kJ/mol	KDB
gyrad	3.8000		KDB
hcg	4395.33	kJ/mol	KDB
hcn	4219.313	kJ/mol	KDB
hf	-147.50	kJ/mol	KDB
hf	146.90 ± 1.00	kJ/mol	NIST Webbook
hf	-15.10	kJ/mol	NIST Webbook
hf	131.50 ± 4.00	kJ/mol	NIST Webbook
hf	151.50	kJ/mol	NIST Webbook
hfl	87.60 ± 4.00	kJ/mol	NIST Webbook
hfl	-58.60	kJ/mol	NIST Webbook
hfl	108.00	kJ/mol	NIST Webbook
hfl	103.40 ± 0.92	kJ/mol	NIST Webbook
hfus	9.24	kJ/mol	Joback Method
hvap	43.20	kJ/mol	NIST Webbook
hvap	43.50	kJ/mol	NIST Webbook
hvap	43.93 ± 0.42	kJ/mol	NIST Webbook
hvap	43.90	kJ/mol	NIST Webbook
hvap	43.50 ± 0.40	kJ/mol	NIST Webbook
ie	8.47 ± 0.02	eV	NIST Webbook
ie	8.58	eV	NIST Webbook
ie	8.48	eV	NIST Webbook
ie	8.50	eV	NIST Webbook
ie	8.42	eV	NIST Webbook
ie	8.43 ± 0.01	eV	NIST Webbook
ie	8.53	eV	NIST Webbook
ie	8.28 ± 0.04	eV	NIST Webbook
ie	8.40 ± 0.02	eV	NIST Webbook
ie	8.42	eV	NIST Webbook
ie	8.55	eV	NIST Webbook
ie	8.43	eV	NIST Webbook
ie	8.47	eV	NIST Webbook
ie	8.55	eV	NIST Webbook
ie	8.46 ± 0.00	eV	NIST Webbook

ie	8.20 ± 0.10	eV	NIST Webbook
ie	8.49	eV	NIST Webbook
ie	8.46 ± 0.00	eV	NIST Webbook
log10ws	-2.70		Aqueous Solubility Prediction Method
log10ws	-2.82		Estimated Solubility Method
logp	2.330		Crippen Method
mcvol	95.520	ml/mol	McGowan Method
nfpaf	%!d(float64=3)		KDB
nfpah	%!d(float64=2)		KDB
nfpas	%!d(float64=2)		KDB
pc	3990.00	kPa	KDB
rinpol	880.00		NIST Webbook
rinpol	125.20		NIST Webbook
rinpol	125.30		NIST Webbook
rinpol	146.81		NIST Webbook
rinpol	900.00		NIST Webbook
rinpol	871.00		NIST Webbook
rinpol	900.00		NIST Webbook
rinpol	879.00		NIST Webbook
rinpol	886.00		NIST Webbook
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rinpol	873.00	NIST Webbook
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ripol	1228.70		NIST Webbook
ripol	1295.00		NIST Webbook
ripol	1293.50		NIST Webbook
ripol	1293.50		NIST Webbook
ripol	1284.80		NIST Webbook
ripol	1282.60		NIST Webbook
ripol	1281.90		NIST Webbook
ripol	1283.80		NIST Webbook
ripol	1264.00		NIST Webbook
ripol	1300.00		NIST Webbook
ripol	1277.00		NIST Webbook
sg	345.10 ± 2.10	J/mol×K	NIST Webbook
sl	240.50	J/mol×K	NIST Webbook
sl	237.57	J/mol×K	NIST Webbook
sl	237.60	J/mol×K	NIST Webbook
tb	418.30	K	KDB

tc	647.00	K	KDB
tf	242.50	K	KDB
tt	242.47 ± 0.10	K	NIST Webbook
tt	242.47 ± 0.10	K	NIST Webbook
tt	242.47 ± 0.07	K	NIST Webbook
vc	0.356	m ³ /kmol	Joback Method
zra	0.26		KDB

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	151.29 ± 0.76	J/mol×K	373.15	NIST Webbook
cpl	235.60	J/mol×K	298.00	NIST Webbook
cpl	179.90	J/mol×K	298.50	NIST Webbook
cpl	183.20	J/mol×K	298.15	NIST Webbook
cpl	182.60	J/mol×K	298.16	NIST Webbook
cpl	182.84	J/mol×K	298.15	NIST Webbook
dvisc	0.0006540	Paxs	303.15	Volumetric, Viscometric, Ultrasonic, and Refractive Index Properties of Liquid Mixtures of Benzene with Industrially Important Monomers at Different Temperatures
dvisc	0.0006180	Paxs	308.15	Volumetric, Viscometric, Ultrasonic, and Refractive Index Properties of Liquid Mixtures of Benzene with Industrially Important Monomers at Different Temperatures

dvisc	0.0005730	Paxs	313.15	Volumetric, Viscometric, Ultrasonic, and Refractive Index Properties of Liquid Mixtures of Benzene with Industrially Important Monomers at Different Temperatures
dvisc	0.0007490 ± 0.0000030	Paxs	293.15	Densities and Viscosities of Binary Mixtures of Ethylbenzene + N-Methyl-2-pyrrolidone, Ethylbenzene + Sulfolane, and Styrene + Octane from (303.15 to 353.15) K and Atmospheric Pressure
dvisc	0.0006990 ± 0.0000030	Paxs	298.15	Densities and Viscosities of Binary Mixtures of Ethylbenzene + N-Methyl-2-pyrrolidone, Ethylbenzene + Sulfolane, and Styrene + Octane from (303.15 to 353.15) K and Atmospheric Pressure
dvisc	0.0006540 ± 0.0000030	Paxs	303.15	Densities and Viscosities of Binary Mixtures of Ethylbenzene + N-Methyl-2-pyrrolidone, Ethylbenzene + Sulfolane, and Styrene + Octane from (303.15 to 353.15) K and Atmospheric Pressure
dvisc	0.0005770 ± 0.0000030	Paxs	313.15	Densities and Viscosities of Binary Mixtures of Ethylbenzene + N-Methyl-2-pyrrolidone, Ethylbenzene + Sulfolane, and Styrene + Octane from (303.15 to 353.15) K and Atmospheric Pressure

dvisc	0.0005130 ± 0.0000030	Paxs	323.15	Densities and Viscosities of Binary Mixtures of Ethylbenzene + N-Methyl-2-pyrrolidone, Ethylbenzene + Sulfolane, and Styrene + Octane from (303.15 to 353.15) K and Atmospheric Pressure
dvisc	0.0004620 ± 0.0000030	Paxs	333.15	Densities and Viscosities of Binary Mixtures of Ethylbenzene + N-Methyl-2-pyrrolidone, Ethylbenzene + Sulfolane, and Styrene + Octane from (303.15 to 353.15) K and Atmospheric Pressure
dvisc	0.0006950	Paxs	298.15	Volumetric, Viscometric, Ultrasonic, and Refractive Index Properties of Liquid Mixtures of Benzene with Industrially Important Monomers at Different Temperatures
dvisc	0.0003810 ± 0.0000030	Paxs	353.15	Densities and Viscosities of Binary Mixtures of Ethylbenzene + N-Methyl-2-pyrrolidone, Ethylbenzene + Sulfolane, and Styrene + Octane from (303.15 to 353.15) K and Atmospheric Pressure
dvisc	0.0003490 ± 0.0000030	Paxs	363.15	Densities and Viscosities of Binary Mixtures of Ethylbenzene + N-Methyl-2-pyrrolidone, Ethylbenzene + Sulfolane, and Styrene + Octane from (303.15 to 353.15) K and Atmospheric Pressure

dvisc	0.0004190 ± 0.0000030	Paxs	343.15	Densities and Viscosities of Binary Mixtures of Ethylbenzene + N-Methyl-2-pyrrolidone, Ethylbenzene + Sulfolane, and Styrene + Octane from (303.15 to 353.15) K and Atmospheric Pressure
hfust	10.96	kJ/mol	242.27	NIST Webbook
hfust	10.95	kJ/mol	242.47	NIST Webbook
hfust	10.95	kJ/mol	242.47	NIST Webbook
hfust	10.96	kJ/mol	242.30	NIST Webbook
hfust	10.95	kJ/mol	242.30	NIST Webbook
hfust	10.95	kJ/mol	242.27	NIST Webbook
hvapt	41.50	kJ/mol	376.50	NIST Webbook
hvapt	43.10	kJ/mol	360.00	NIST Webbook
hvapt	36.82	kJ/mol	418.20	KDB
hvapt	42.50	kJ/mol	319.50	NIST Webbook
hvapt	40.20	kJ/mol	347.50	NIST Webbook
hvapt	42.50	kJ/mol	289.50	NIST Webbook
pvap	2.00	kPa	313.06	Isobaric Vapor-Liquid Equilibria for the Binary Mixtures of Styrene with Ethylbenzene, o-Xylene, m-Xylene, and p-Xylene
pvap	5.00	kPa	332.40	Isobaric Low-Pressure Vapor Liquid Equilibrium Data for Ethylbenzene + Styrene + Sulfolane and the Three Constituent Binary Systems
pvap	7.50	kPa	341.40	Isobaric Low-Pressure Vapor Liquid Equilibrium Data for Ethylbenzene + Styrene + Sulfolane and the Three Constituent Binary Systems

pvap	4.00	kPa	327.14	Isobaric Vapor-Liquid Equilibria for the Binary Mixtures of Styrene with Ethylbenzene, o-Xylene, m-Xylene, and p-Xylene
pvap	6.00	kPa	336.09	Isobaric Vapor-Liquid Equilibria for the Binary Mixtures of Styrene with Ethylbenzene, o-Xylene, m-Xylene, and p-Xylene
pvap	8.00	kPa	342.72	Isobaric Vapor-Liquid Equilibria for the Binary Mixtures of Styrene with Ethylbenzene, o-Xylene, m-Xylene, and p-Xylene
pvap	10.00	kPa	348.10	Isobaric Vapor-Liquid Equilibria for the Binary Mixtures of Styrene with Ethylbenzene, o-Xylene, m-Xylene, and p-Xylene
pvap	17.50	kPa	362.60	Isobaric Low-Pressure Vapor Liquid Equilibrium Data for Ethylbenzene + Styrene + Sulfolane and the Three Constituent Binary Systems
pvap	12.00	kPa	352.62	Isobaric Vapor-Liquid Equilibria for the Binary Mixtures of Styrene with Ethylbenzene, o-Xylene, m-Xylene, and p-Xylene
pvap	16.00	kPa	360.07	Isobaric Vapor-Liquid Equilibria for the Binary Mixtures of Styrene with Ethylbenzene, o-Xylene, m-Xylene, and p-Xylene

pvap	15.00	kPa	358.50	Isobaric Low-Pressure Vapor Liquid Equilibrium Data for Ethylbenzene + Styrene + Sulfolane and the Three Constituent Binary Systems
pvap	10.00	kPa	348.30	Isobaric Low-Pressure Vapor Liquid Equilibrium Data for Ethylbenzene + Styrene + Sulfolane and the Three Constituent Binary Systems
pvap	18.00	kPa	363.22	Isobaric Vapor-Liquid Equilibria for the Binary Mixtures of Styrene with Ethylbenzene, o-Xylene, m-Xylene, and p-Xylene
pvap	20.00	kPa	366.06	Isobaric Vapor-Liquid Equilibria for the Binary Mixtures of Styrene with Ethylbenzene, o-Xylene, m-Xylene, and p-Xylene
pvap	12.50	kPa	353.90	Isobaric Low-Pressure Vapor Liquid Equilibrium Data for Ethylbenzene + Styrene + Sulfolane and the Three Constituent Binary Systems
pvap	22.00	kPa	368.71	Isobaric Vapor-Liquid Equilibria for the Binary Mixtures of Styrene with Ethylbenzene, o-Xylene, m-Xylene, and p-Xylene

pvap	25.00	kPa	372.40	Isobaric Low-Pressure Vapor Liquid Equilibrium Data for Ethylbenzene + Styrene + Sulfolane and the Three Constituent Binary Systems
pvap	22.50	kPa	369.40	Isobaric Low-Pressure Vapor Liquid Equilibrium Data for Ethylbenzene + Styrene + Sulfolane and the Three Constituent Binary Systems
pvap	20.00	kPa	366.20	Isobaric Low-Pressure Vapor Liquid Equilibrium Data for Ethylbenzene + Styrene + Sulfolane and the Three Constituent Binary Systems
pvap	14.00	kPa	356.55	Isobaric Vapor-Liquid Equilibria for the Binary Mixtures of Styrene with Ethylbenzene, o-Xylene, m-Xylene, and p-Xylene
pvap	26.00	kPa	373.43	Isobaric Vapor-Liquid Equilibria for the Binary Mixtures of Styrene with Ethylbenzene, o-Xylene, m-Xylene, and p-Xylene
pvap	24.00	kPa	371.17	Isobaric Vapor-Liquid Equilibria for the Binary Mixtures of Styrene with Ethylbenzene, o-Xylene, m-Xylene, and p-Xylene
rfi	1.55050		288.15	Solubilities of Diethyl Phthalate, Dicyclopentadiene, and Styrene in Ionic Liquid 1-Ethyl-3-methylimidazolium Acetate

rfi	1.54560	298.15	Volumetric, Viscometric, Ultrasonic, and Refractive Index Properties of Liquid Mixtures of Benzene with Industrially Important Monomers at Different Temperatures
rfi	1.54450	303.15	Volumetric, Viscometric, Ultrasonic, and Refractive Index Properties of Liquid Mixtures of Benzene with Industrially Important Monomers at Different Temperatures
rfi	1.54370	308.15	Volumetric, Viscometric, Ultrasonic, and Refractive Index Properties of Liquid Mixtures of Benzene with Industrially Important Monomers at Different Temperatures
rfi	1.54290	313.15	Volumetric, Viscometric, Ultrasonic, and Refractive Index Properties of Liquid Mixtures of Benzene with Industrially Important Monomers at Different Temperatures
rfi	1.54600	293.15	Effect of temperature on the volumetric properties of (cyclohexanone + an aromatic hydrocarbon)

rfi	1.54600	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	1.54660	298.15	Effects of the presence of ethylacetate or benzene on the densities and volumetric properties of mixture (styrene + N,N-dimethylformamide)
rfi	1.55330	283.15	Solubilities of Diethyl Phthalate, Dicyclopentadiene, and Styrene in Ionic Liquid 1-Ethyl-3-methylimidazolium Acetate
rfi	1.54395	298.15	KDB
rfi	1.54720	293.15	Solubilities of Diethyl Phthalate, Dicyclopentadiene, and Styrene in Ionic Liquid 1-Ethyl-3-methylimidazolium Acetate
rfi	1.54400	298.15	Solubilities of Diethyl Phthalate, Dicyclopentadiene, and Styrene in Ionic Liquid 1-Ethyl-3-methylimidazolium Acetate
rfi	1.54090	303.15	Solubilities of Diethyl Phthalate, Dicyclopentadiene, and Styrene in Ionic Liquid 1-Ethyl-3-methylimidazolium Acetate
rfi	1.53800	308.15	Solubilities of Diethyl Phthalate, Dicyclopentadiene, and Styrene in Ionic Liquid 1-Ethyl-3-methylimidazolium Acetate

rfi	1.53520	313.15	Solubilities of Diethyl Phthalate, Dicyclopentadiene, and Styrene in Ionic Liquid 1-Ethyl-3-methylimidazolium Acetate
rfi	1.53210	318.15	Solubilities of Diethyl Phthalate, Dicyclopentadiene, and Styrene in Ionic Liquid 1-Ethyl-3-methylimidazolium Acetate
rfi	1.52910	323.15	Solubilities of Diethyl Phthalate, Dicyclopentadiene, and Styrene in Ionic Liquid 1-Ethyl-3-methylimidazolium Acetate
rfi	1.54380	298.15	Isobaric Vapor-Liquid Equilibria for the Binary Mixtures of Styrene with Ethylbenzene, o-Xylene, m-Xylene, and p-Xylene
rfi	1.54600	293.15	A study of densities and volumetric properties of binary mixtures containing nitrobenzene at T = (293.15 to 353.15) K
rfi	1.54600	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

rho	906.29	kg/m ³	293.15	Densities and Viscosities of Binary Mixtures of Ethylbenzene + N-Methyl-2-pyrrolidone, Ethylbenzene + Sulfolane, and Styrene + Octane from (303.15 to 353.15) K and Atmospheric Pressure
rho	906.00	kg/m ³	293.00	KDB
rho	843.99	kg/m ³	363.15	Densities and Viscosities of Binary Mixtures of Ethylbenzene + N-Methyl-2-pyrrolidone, Ethylbenzene + Sulfolane, and Styrene + Octane from (303.15 to 353.15) K and Atmospheric Pressure
rho	852.68	kg/m ³	353.15	Densities and Viscosities of Binary Mixtures of Ethylbenzene + N-Methyl-2-pyrrolidone, Ethylbenzene + Sulfolane, and Styrene + Octane from (303.15 to 353.15) K and Atmospheric Pressure
rho	861.72	kg/m ³	343.15	Densities and Viscosities of Binary Mixtures of Ethylbenzene + N-Methyl-2-pyrrolidone, Ethylbenzene + Sulfolane, and Styrene + Octane from (303.15 to 353.15) K and Atmospheric Pressure

rho	870.64	kg/m ³	333.15	Densities and Viscosities of Binary Mixtures of Ethylbenzene + N-Methyl-2-pyrrolidone, Ethylbenzene + Sulfolane, and Styrene + Octane from (303.15 to 353.15) K and Atmospheric Pressure
rho	879.62	kg/m ³	323.15	Densities and Viscosities of Binary Mixtures of Ethylbenzene + N-Methyl-2-pyrrolidone, Ethylbenzene + Sulfolane, and Styrene + Octane from (303.15 to 353.15) K and Atmospheric Pressure
rho	888.53	kg/m ³	313.15	Densities and Viscosities of Binary Mixtures of Ethylbenzene + N-Methyl-2-pyrrolidone, Ethylbenzene + Sulfolane, and Styrene + Octane from (303.15 to 353.15) K and Atmospheric Pressure
rho	897.45	kg/m ³	303.15	Densities and Viscosities of Binary Mixtures of Ethylbenzene + N-Methyl-2-pyrrolidone, Ethylbenzene + Sulfolane, and Styrene + Octane from (303.15 to 353.15) K and Atmospheric Pressure
rho	901.94	kg/m ³	298.15	Volumetric Properties of 3-Methylbutyl Ethanoate with Ethyl Acrylate, Butyl Acrylate, Methyl Methacrylate, and Styrene at 25 C

rho	901.80	kg/m ³	298.15	Volumetric, Viscometric, Ultrasonic, and Refractive Index Properties of Liquid Mixtures of Benzene with Industrially Important Monomers at Different Temperatures
rho	897.10	kg/m ³	303.15	Volumetric, Viscometric, Ultrasonic, and Refractive Index Properties of Liquid Mixtures of Benzene with Industrially Important Monomers at Different Temperatures
rho	892.00	kg/m ³	308.15	Volumetric, Viscometric, Ultrasonic, and Refractive Index Properties of Liquid Mixtures of Benzene with Industrially Important Monomers at Different Temperatures
rho	901.86	kg/m ³	298.15	Densities and Viscosities of Binary Mixtures of Ethylbenzene + N-Methyl-2-pyrrolidone, Ethylbenzene + Sulfolane, and Styrene + Octane from (303.15 to 353.15) K and Atmospheric Pressure
rho	902.30	kg/m ³	298.15	Isobaric Vapor-Liquid Equilibria for the Binary Mixtures of Styrene with Ethylbenzene, o-Xylene, m-Xylene, and p-Xylene
rho	900.52	kg/m ³	298.15	Separation of ethylbenzene/styrene systems using ionic liquids in ternary LLE

rhoI	888.47	kg/m3	313.15	Density, excess volume, and excess coefficient of thermal expansion of the binary systems of dimethyl carbonate with butyl methacrylate, allyl methacrylate, styrene, and vinyl acetate at T = (293.15, 303.15, and 313.15) K
rhoI	897.39	kg/m3	303.15	Density, excess volume, and excess coefficient of thermal expansion of the binary systems of dimethyl carbonate with butyl methacrylate, allyl methacrylate, styrene, and vinyl acetate at T = (293.15, 303.15, and 313.15) K
rhoI	906.26	kg/m3	293.15	Density, excess volume, and excess coefficient of thermal expansion of the binary systems of dimethyl carbonate with butyl methacrylate, allyl methacrylate, styrene, and vinyl acetate at T = (293.15, 303.15, and 313.15) K
rhoI	848.60	kg/m3	353.15	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

rho1	858.20	kg/m3	343.15	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
rho1	867.80	kg/m3	333.15	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
rho1	901.51	kg/m3	298.15	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
rho1	886.90	kg/m3	313.15	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
rho1	896.40	kg/m3	303.15	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

rho1	906.00	kg/m3	293.15	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
rho1	848.64	kg/m3	353.15	A study of densities and volumetric properties of binary mixtures containing nitrobenzene at T = (293.15 to 353.15) K
rho1	858.20	kg/m3	343.15	A study of densities and volumetric properties of binary mixtures containing nitrobenzene at T = (293.15 to 353.15) K
rho1	867.76	kg/m3	333.15	A study of densities and volumetric properties of binary mixtures containing nitrobenzene at T = (293.15 to 353.15) K
rho1	877.32	kg/m3	323.15	A study of densities and volumetric properties of binary mixtures containing nitrobenzene at T = (293.15 to 353.15) K
rho1	887.30	kg/m3	313.15	Volumetric, Viscometric, Ultrasonic, and Refractive Index Properties of Liquid Mixtures of Benzene with Industrially Important Monomers at Different Temperatures

rho1	896.44	kg/m3	303.15	A study of densities and volumetric properties of binary mixtures containing nitrobenzene at T = (293.15 to 353.15) K
rho1	906.00	kg/m3	293.15	A study of densities and volumetric properties of binary mixtures containing nitrobenzene at T = (293.15 to 353.15) K
rho1	877.30	kg/m3	323.15	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
rho1	901.51	kg/m3	298.15	Effect of temperature on the volumetric properties of (cyclohexanone + an aromatic hydrocarbon)
rho1	886.88	kg/m3	313.15	A study of densities and volumetric properties of binary mixtures containing nitrobenzene at T = (293.15 to 353.15) K
sfust	45.16	J/molxK	242.47	NIST Webbook
sfust	45.16	J/molxK	242.27	NIST Webbook
sfust	45.32	J/molxK	242.27	NIST Webbook
sfust	45.20	J/molxK	242.47	NIST Webbook
speedsl	1383.00	m/s	298.15	Volumetric, Viscometric, Ultrasonic, and Refractive Index Properties of Liquid Mixtures of Benzene with Industrially Important Monomers at Different Temperatures

speedsl	1310.00	m/s	313.15	Volumetric, Viscometric, Ultrasonic, and Refractive Index Properties of Liquid Mixtures of Benzene with Industrially Important Monomers at Different Temperatures
speedsl	1334.00	m/s	308.15	Volumetric, Viscometric, Ultrasonic, and Refractive Index Properties of Liquid Mixtures of Benzene with Industrially Important Monomers at Different Temperatures
speedsl	1360.00	m/s	303.15	Volumetric, Viscometric, Ultrasonic, and Refractive Index Properties of Liquid Mixtures of Benzene with Industrially Important Monomers at Different Temperatures
srf	0.03	N/m	293.20	KDB

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Solubilities of Diethyl Phthalate, Dicyclopentadiene, and Styrene in Ionic Liquid 1-Ethyl-3-methylimidazolium Acetate:

Legend

af:	Acentric Factor
affp:	Proton affinity
aigt:	Autoignition Temperature
basg:	Gas basicity
cpg:	Ideal gas heat capacity
cpl:	Liquid phase heat capacity
dm:	Dipole Moment
dvisc:	Dynamic viscosity
fill:	Lower Flammability Limit
flu:	Upper Flammability Limit
fpc:	Flash Point (Closed Cup Method)
fpo:	Flash Point (Open Cup Method)
gf:	Standard Gibbs free energy of formation
gyrad:	Radius of Gyration
hcg:	Heat of Combustion, Gross form
hcn:	Heat of Combustion, Net Form
hf:	Enthalpy of formation at standard conditions
hfl:	Liquid phase enthalpy of formation at standard conditions
hfus:	Enthalpy of fusion at standard conditions
hfust:	Enthalpy of fusion at a given temperature
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
nfpas:	NFPA Safety Rating
pc:	Critical Pressure

pvap:	Vapor pressure
rfi:	Refractive Index
rho:	Liquid Density
rinpol:	Non-polar retention indices
ripol:	Polar retention indices
sfust:	Entropy of fusion at a given temperature
sg:	Molar entropy at standard conditions
sl:	Liquid phase molar entropy at standard conditions
speedsl:	Speed of sound in fluid
srf:	Surface Tension
tb:	Normal Boiling Point Temperature
tc:	Critical Temperature
tf:	Normal melting (fusion) point
tt:	Triple Point Temperature
vc:	Critical Volume
zra:	Rackett Parameter

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