Mesitylene

Other names: 1,3,5-Trimethylbenzene

1,3,5-trimethylbenzene (mesitylene)

2,4,6-Trimethylbenzene3,5-Dimethyltoluene

Benzene, 1,3,5-trimethyl-

FLEET-X NSC 9273

S-TRIMETHYLBENEZENE

TMB UN 2325

s-Trimethylbenzene sym-Trimethylbenzene

Inchi: InChi=1S/C9H12/c1-7-4-8(2)6-9(3)5-7/h4-6H,1-3H3

InchiKey: AUHZEENZYGFFBQ-UHFFFAOYSA-N

Formula: C9H12

SMILES: Cc1cc(C)cc(C)c1

Mol. weight [g/mol]: 120.19 CAS: 108-67-8

Physical Properties

Property code	Value	Unit	Source
af	0.3990		KDB
affp	836.20	kJ/mol	NIST Webbook
affp	835.10	kJ/mol	NIST Webbook
basg	808.80	kJ/mol	NIST Webbook
basg	808.60	kJ/mol	NIST Webbook
chl	-5202.70	kJ/mol	NIST Webbook
chl	-5193.10 ± 1.30	kJ/mol	NIST Webbook
cpl	207.43	J/mol×K	Thermodynamics of mixtures involving some (benzene derivatives + benzonitrile)
dm	0.10	debye	KDB
gf	118.00	kJ/mol	KDB
hcg	5193.14	kJ/mol	KDB
hcn	4929.045	kJ/mol	KDB
hf	-16.08	kJ/mol	KDB
hfus	12.33	kJ/mol	Joback Method

hvap	39.23	kJ/mol	Joback Method
ie	8.40 ± 0.01	eV	NIST Webbook
ie	8.42	eV NIST Webboo	
ie	8.42	eV NIST Webboo	
ie	8.41 ± 0.02	eV	NIST Webbook
ie	8.39 ± 0.01	eV	NIST Webbook
ie	8.45 ± 0.05	eV	NIST Webbook
ie	8.45	eV	NIST Webbook
ie	8.47	eV	NIST Webbook
ie	8.20 ± 0.10	eV	NIST Webbook
ie	8.46	eV	NIST Webbook
ie	8.41 ± 0.01	eV	NIST Webbook
ie	8.40 ± 0.01	eV	NIST Webbook
ie	8.45 ± 0.05	eV	NIST Webbook
ie	8.65 ± 0.03	eV	NIST Webbook
ie	8.55	eV	NIST Webbook
log10ws	-3.40		Estimated Solubility Method
log10ws	-3.40		Aqueous Solubility Prediction Method
logp	2.612		Crippen Method
mcvol	113.910	ml/mol	McGowan Method
рс	3127.00	kPa	KDB
рс	3260.00 ± 9.81	kPa	NIST Webbook
рс	3255.00 ± 0.32	kPa	NIST Webbook
рс	3161.90 ± 0.31	kPa	NIST Webbook
рс	3130.00 ± 40.00	kPa	NIST Webbook
рс	3127.00 ± 6.00	kPa	NIST Webbook
rinpol	986.00		NIST Webbook
rinpol	964.00		NIST Webbook
rinpol	997.00		NIST Webbook
rinpol	996.00		NIST Webbook
rinpol	992.00		NIST Webbook
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rinpol	995.00		NIST Webbook
rinpol	963.00		NIST Webbook
rinpol	960.00		NIST Webbook
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	340.00		
rinpol	956.00		NIST Webbook

rinnal	952.00	NIST Webbook
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rinpol	974.70	NIST Webbook
rinpol	957.00	NIST Webbook
	954.00	NIST Webbook
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rinpol	956.18	NIST Webbook
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rinpol	966.50	NIST Webbook
rinpol	967.40	NIST Webbook
rinpol	967.70	NIST Webbook
rinpol	976.00	NIST Webbook
rinpol	952.00	NIST Webbook
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rinpol	954.00	NIST Webbook
rinpol	960.00	NIST Webbook
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rinnal	973.00	NIST Webbook
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rinpol	973.00	NIST Webbook
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	960.00	NIST Webbook
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rinpol	979.50	NIST Webbook
rinpol	984.80	NIST Webbook
rinpol	947.50	NIST Webbook
rinpol	952.20	NIST Webbook
rinpol	953.33	NIST Webbook
rinpol	963.80	NIST Webbook
rinpol	972.10	NIST Webbook
rinpol	976.10	NIST Webbook
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rinpol	952.00	NIST Webbook
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rinpol	963.30	NIST Webbook

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	957.00	NIST Webbook
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rinpol	969.00	NIST Webbook
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rinpol	962.70	NIST Webbook
rinpol	988.00	NIST Webbook
rinpol	1000.00	NIST Webbook
rinpol	990.00	NIST Webbook
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rinpol	173.80	NIST Webbook
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rinpol	967.60	NIST Webbook
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rinpol	953.00	NIST Webbook
rinpol	997.20	NIST Webbook
rinpol	978.22	NIST Webbook
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ripol	1220.30	NIST Webbook
ripol	1251.00	NIST Webbook
ripol	1242.20	NIST Webbook

ripol	1263.00		NIST Webbook
sg	385.30 ± 0.63	J/mol×K	NIST Webbook
sl	273.55	J/mol×K	NIST Webbook
tb	437.83	К	Phase equilibria of three binary systems containing 2,5-dimethylthiophene and 2-ethylthiophene in hydrocarbons
tb	437.89	K	KDB
tc	637.30	K	KDB
tf	228.40	K	KDB
tf	228.23	K	Aqueous Solubility Prediction Method
tt	228.42 ± 0.01	K	NIST Webbook
VC	0.431	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	265.25	J/mol×K	581.96	Joback Method
cpg	275.86	J/mol×K	616.95	Joback Method
cpg	216.81	J/mol×K	441.96	Joback Method
cpg	229.86	J/mol×K	476.96	Joback Method
cpg	242.27	J/mol×K	511.96	Joback Method
cpg	254.06	J/mol×K	546.96	Joback Method
cpg	285.90	J/mol×K	651.95	Joback Method
cpl	207.66	J/mol×K	298.15	NIST Webbook
cpl	207.69	J/mol×K	298.15	NIST Webbook
cpl	205.50	J/mol×K	294.99	NIST Webbook
cpl	207.85	J/mol×K	298.15	NIST Webbook
cpl	211.30	J/mol×K	298.00	NIST Webbook
cpl	209.33	J/mol×K	298.15	NIST Webbook
cpl	201.46	J/mol×K	299.80	NIST Webbook
cpl	213.00	J/mol×K	298.00	NIST Webbook
cpl	206.50	J/mol×K	298.00	NIST Webbook
dvisc	0.0004900	Paxs	314.15	Shear Viscosity of Mixtures of r-Tocopherol with Nonpolar Solvents
dvisc	0.0006300	Paxs	296.15	Shear Viscosity of Mixtures of r-Tocopherol with Nonpolar Solvents

dvisc 0.0007500 Paxs 290.15 Shear Viscosity of Mixtures of r-Tocopherol with Nonpolar Solvents dvisc 0.0008000 Paxs 284.15 Shear Viscosity of Mixtures of r-Tocopherol with Nonpolar Solvents dvisc 0.0004600 Paxs 320.15 Shear Viscosity of Mixtures of r-Tocopherol with Nonpolar Solvents dvisc 0.0004400 Paxs 325.15 Shear Viscosity of Mixtures of r-Tocopherol with Nonpolar Solvents dvisc 0.0004100 Paxs 330.15 Shear Viscosity of Mixtures of r-Tocopherol with Nonpolar Solvents dvisc 0.0004000 Paxs 335.15 Shear Viscosity of Mixtures of r-Tocopherol with Nonpolar Solvents dvisc 0.0003900 Paxs 340.15 Shear Viscosity of Mixtures of r-Tocopherol with Nonpolar Solvents dvisc 0.0003500 Paxs 345.15 Shear Viscosity of Mixtures of r-Tocopherol with Nonpolar Solvents dvisc 0.0003400 Paxs 350.15 Shear Viscosity of Mixtures of r-Tocopherol with Nonpolar Solvents dvisc 0.0008500 Paxs 37.15 Shear Viscosity of Mixtures of r-Tocopherol with Nonpolar Solvents						
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dvisc 0.0004400 Paxs 325.15 Shear Viscosity of Mixtures of r-Tocopherol with Nonpolar Solvents dvisc 0.0004100 Paxs 330.15 Shear Viscosity of Mixtures of r-Tocopherol with Nonpolar Solvents dvisc 0.0004100 Paxs 330.15 Shear Viscosity of Mixtures of r-Tocopherol with Nonpolar Solvents dvisc 0.0004000 Paxs 335.15 Shear Viscosity of Mixtures of r-Tocopherol with Nonpolar Solvents dvisc 0.0003900 Paxs 340.15 Shear Viscosity of Mixtures of r-Tocopherol with Nonpolar Solvents dvisc 0.0003500 Paxs 345.15 Shear Viscosity of Mixtures of r-Tocopherol with Nonpolar Solvents dvisc 0.0003400 Paxs 350.15 Shear Viscosity of Mixtures of r-Tocopherol with Nonpolar Solvents dvisc 0.0003400 Paxs 350.15 Shear Viscosity of Mixtures of r-Tocopherol with Nonpolar Solvents dvisc 0.0008500 Paxs 350.15 Shear Viscosity of Mixtures of r-Tocopherol with Nonpolar Solvents dvisc 0.0008500 Paxs 278.15 Shear Viscosity of Mixtures of r-Tocopherol with Nonpolar Solvents dvisc 0.0008500 Paxs 278.15 Shear Viscosity of Mixtures of r-Tocopherol with Nonpolar Solvents	dvisc	0.008000	Paxs	284.15	of Mixtures of r-Tocopherol with Nonpolar	
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of Mixtures of r-Tocopherol with Nonpolar	dvisc	0.0003400	Paxs	350.15	of Mixtures of r-Tocopherol with Nonpolar	
	dvisc	0.0008500	Paxs	278.15	of Mixtures of r-Tocopherol with Nonpolar	

dvisc	0.0006210	Paxs	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	0.0006610	Paxs	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	0.0007050	Paxs	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	0.0007540	Paxs	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	0.0005066	Paxs	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	0.0005792	Paxs	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	0.0006572	Paxs	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	0.0005700	Paxs	302.15	Shear Viscosity of Mixtures of r-Tocopherol with Nonpolar Solvents
dvisc	0.0005300	Paxs	308.15	Shear Viscosity of Mixtures of r-Tocopherol with Nonpolar Solvents
hfust	9.51	kJ/mol	228.40	NIST Webbook
hfust	9.51	kJ/mol	228.40	NIST Webbook
hvapt	51.10	kJ/mol	261.50	NIST Webbook
hvapt	47.70	kJ/mol	286.00	NIST Webbook
hvapt	46.20 ± 1.30	kJ/mol	319.00	NIST Webbook
hvapt	43.50	kJ/mol	386.00	NIST Webbook
hvapt	49.70	kJ/mol	302.50	NIST Webbook
hvapt	43.90	kJ/mol	399.50	NIST Webbook

pvap	101.33	kPa	437.83	Phase equilibria of three binary systems containing 2,5-dimethylthiophen and 2-ethylthiophene in hydrocarbons	e
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	1.49693		298.15	Density, Speed of Sound, and Refractive Index for Binary Mixtures Containing Cycloalkanes with o-Xylene, m-Xylene, p-Xylene, and Mesitylene at T = (298.15 and 313.15) K	
rfi	1.48680		318.15	Densities, Refractive Indices, and Excess Properties of Binary Mixtures of 1,4-Dioxane with Benzene, Toluene, o-Xylene, m-Xylene, p-Xylene, and Mesitylene at Temperatures from (288.15 to 318.15) K	
rfi	1.48930		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	1.48980	308.15	Thermodynamic properties of (tetradecane + benzene, + toluene, + chlorobenzene, + anisole) binary mixtures at T = (298.15, 303.15, and 308.15) K	
rfi	1.49440	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	1.49690	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	1.49950	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	1.48680	318.15	Refractive Indices of Binary Mixtures of Tetrahydrofuran with Aromatic Hydrocarbon at Temperatures from (288.15 to 318.15) K	
rfi	1.48930	313.15	Refractive Indices of Binary Mixtures of Tetrahydrofuran with Aromatic Hydrocarbon at Temperatures from (288.15 to 318.15) K	
rfi	1.48923	313.15	Density, Speed of Sound, and Refractive Index for Binary Mixtures Containing Cycloalkanes with o-Xylene, m-Xylene, p-Xylene, and Mesitylene at T = (298.15 and 313.15) K	
rfi	1.49440	303.15	Refractive Indices of Binary Mixtures of Tetrahydrofuran with Aromatic Hydrocarbon at Temperatures from (288.15 to 318.15) K	

rfi	1.49690	298.15	Refractive Indices of Binary Mixtures of Tetrahydrofuran with Aromatic Hydrocarbon at Temperatures from (288.15 to 318.15) K	
rfi	1.49950	293.15	Refractive Indices of Binary Mixtures of Tetrahydrofuran with Aromatic Hydrocarbon at Temperatures from (288.15 to 318.15) K	
rfi	1.50200	288.15	Refractive Indices of Binary Mixtures of Tetrahydrofuran with Aromatic Hydrocarbon at Temperatures from (288.15 to 318.15) K	
rfi	1.49920	293.10	Liquid-Liquid Equilibria Measurements for Ternary System of Hexadecane + 1,3,5-Trimethylbenzei + N-Methyl-2-pyrrolidor	
rfi	1.49684	298.15	KDB	
rfi	1.49682	298.15	Effect of Temperature on the Change of Refractive Index on Mixing for Butyl Acetate + Aromatic Hydrocarbons	
rfi	1.49580	298.15	Thermodynamic properties of (tetradecane + benzene, + toluene, + chlorobenzene, + bromobenzene, + anisole) binary mixtures at T = (298.15, 303.15, and 308.15) K	

rfi	1.48980	298.15	Thermodynamic properties of (tetradecane + benzene, + toluene, + chlorobenzene, + bromobenzene, + anisole) binary mixtures at T = (298.15, 303.15, and 308.15) K
rfi	1.49280	303.15	Thermodynamic properties of (tetradecane + benzene, + toluene, + chlorobenzene, + bromobenzene, + anisole) binary mixtures at T = (298.15, 303.15, and 308.15) K
rfi	1.49670	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	1.49600	298.15	Excess and deviation properties for the binary mixtures of methylcyclohexane with benzene, toluene, p-xylene, mesitylene, and anisole at T = (298.15, 303.15, and 308.15) K
rfi	1.49360	303.15	Excess and deviation properties for the binary mixtures of methylcyclohexane with benzene, toluene, p-xylene, mesitylene, and anisole at T = (298.15, 303.15, and 308.15) K

rfi	1.49130	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	1.50450	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	1.49930	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	1.49760	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	1.49480		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	1.50200		288.15	Densities, Refractive Indices, and Excess Properties of Binary Mixtures of 1,4-Dioxane with Benzene, Toluene, o-Xylene, m-Xylene, p-Xylene, and Mesitylene at Temperatures from (288.15 to 318.15) K	
rhol	865.00	kg/m3	293.00	KDB	
rhol	861.03	kg/m3	298.15	Excess Molar volumes and Surface Tensions of Trimethylbenzene with Tetrahydrofuran Tetrachloromethane and Dimethylsulfoxide at 298.15 K	
rhol	840.90	kg/m3	323.15	Densities and Dynamic Viscosities of Alicyclic Cyclohexane with Toluene, o-Xylene, and Mesitylene at T = (303.15 to 323.15) K and Atmospheric Pressure	

rhol	845.10	kg/m3	318.15	Densities and Dynamic Viscosities of Alicyclic Cyclohexane with Toluene, o-Xylene, and Mesitylene at T = (303.15 to 323.15) K and Atmospheric Pressure	
rhol	849.30	kg/m3	313.15	Densities and Dynamic Viscosities of Alicyclic Cyclohexane with Toluene, o-Xylene, and Mesitylene at T = (303.15 to 323.15) K and Atmospheric Pressure	
rhol	853.30	kg/m3	308.15	Densities and Dynamic Viscosities of Alicyclic Cyclohexane with Toluene, o-Xylene, and Mesitylene at T = (303.15 to 323.15) K and Atmospheric Pressure	
rhol	857.40	kg/m3	303.15	Densities and Dynamic Viscosities of Alicyclic Cyclohexane with Toluene, o-Xylene, and Mesitylene at T = (303.15 to 323.15) K and Atmospheric Pressure	
rhol	859.70	kg/m3	298.20	Liquid-liquid equilibrium for methyl butyl ketone + o-, m-, p-cresol + water ternary systems and COSMO-SAC predictions	

rhol	826.60	kg/m3	333.15	Densities and volumetric properties of (N-acetylmorpholine + aromatic hydrocarbon) binary mixtures from T = (293.15 to 343.15) K
rhol	852.66	kg/m3	308.15	Acoustic and thermodynamic properties of binary mixtures of 1-nonanol with o-xylene, m-xylene, p-xylene, ethylbenzene and mesitylene at T = (298.15 and 308.15) K
rhol	861.03	kg/m3	298.15	Excess Molar Volumes and Surface Tensions of 1,2,4-Trimethylbenzene and 1,3,5-Trimethylbenzene with 1-Butanol, 2-Methyl-1-propanol, 2-Butanol, and 2-Methyl-2-propanol at 298.15 K
rhol	818.50	kg/m3	343.15	Densities and volumetric properties of (N-acetylmorpholine + aromatic hydrocarbon) binary mixtures from T = (293.15 to 343.15) K
rhol	834.70	kg/m3	323.15	Densities and volumetric properties of (N-acetylmorpholine + aromatic hydrocarbon) binary mixtures from T = (293.15 to 343.15) K
rhol	842.80	kg/m3	313.15	Densities and volumetric properties of (N-acetylmorpholine + aromatic hydrocarbon) binary mixtures from T = (293.15 to 343.15) K

rhol	856.90	kg/m3	303.15	Densities and volumetric properties of (N-acetylmorpholine + aromatic hydrocarbon) binary mixtures from T = (293.15 to 343.15) K	
rhol	865.10	kg/m3	293.15	Densities and volumetric properties of (N-acetylmorpholine + aromatic hydrocarbon) binary mixtures from T = (293.15 to 343.15) K	
rhol	845.80	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	849.71	kg/m3	313.15	Densities and Volumetric Properties of Binary Mixtures of Butyl Acrylate with Benzene, Toluene, o-Xylene, m-Xylene, p-Xylene, and Mesitylene at Temperatures from 288.15 K to 318.15 K	
rhol	853.63	kg/m3	308.15	Densities and Volumetric Properties of Binary Mixtures of Butyl Acrylate with Benzene, Toluene, o-Xylene, m-Xylene, p-Xylene, and Mesitylene at Temperatures from 288.15 K to 318.15 K	

rhol	857.54	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	861.45	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	865.37	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	869.28	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	860.86	kg/m3	298.15	Acoustic and thermodynamic properties of binary mixtures of 1-nonanol with o-xylene, m-xylene, p-xylene, ethylbenzene and mesitylene at T = (298.15 and 308.15) K	
speedsl	1339.80	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	1360.40	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	1280.40	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	1300.20	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	1319.60	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	1263.00	m/s	318.15	Physicochemical study of intermolecular interactions in 1,4-dioxane + aromatic hydrocarbons binary mixtures at different temperatures by using ultrasonic and viscometric methods
srf	0.03	N/m	308.15	Excess Molar Volumes and Surface Tensions of 1,2,4- Trimethylbenzene and 1,3,5- Trimethylbenzene with 1,1-Diethoxyethane and 2,2-Dimethoxypropane at (298.15, 308.15, and 313.15) K
srf	0.03	N/m	313.15	Densities and Surface Tensions of Trimethylbenzene + Dimethyl Carbonate or + Diethyl Carbonate at 298.15 K and 313.15 K
srf	0.03	N/m	298.15	Excess Molar Volumes and Surface Tensions of 1,2,4- Trimethylbenzene and 1,3,5- Trimethylbenzene with 1,1-Diethoxyethane and 2,2-Dimethoxypropane at (298.15, 308.15, and 313.15) K

orf	0.02	NI/m	298.15	Densities and
srf	0.03	N/m	298.15	Surface Tensions of Trimethylbenzene + Dimethyl Carbonate or + Diethyl Carbonate at 298.15 K and 313.15 K
srf	0.03	N/m	313.15	Excess Molar Volumes and Surface Tensions of 1,2,4- Trimethylbenzene and 1,3,5- Trimethylbenzene with 1,1-Diethoxyethane and 2,2-Dimethoxypropane at (298.15, 308.15, and 313.15) K
srf	0.03	N/m	298.15	Excess Molar Volumes and Surface Tensions of 1,2,4-Trimethylbenzene and 1,3,5-Trimethylbenzene with Isopropyl Acetate and Isobutyl Acetate at (298.15, 308.15, and 313.15) K
srf	0.03	N/m	308.15	Excess Molar Volumes and Surface Tensions of 1,2,4-Trimethylbenzene and 1,3,5-Trimethylbenzene with Isopropyl Acetate and Isobutyl Acetate at (298.15, 308.15, and 313.15) K
srf	0.03	N/m	298.15	Densities, surface tensions, and derived surface thermodynamics properties of (trimethylbenzene + propyl acetate, or butyl acetate) from T = 298.15 K to 313.15 K

srf	0.03	N/m	298.15	Excess Molar Volumes and Surface Tensions of Trimethylbenzene + Ethylene Glycol Ester at 298.15 K and 313.15 K
srf	0.03	N/m	313.15	Densities, surface tensions, and derived surface thermodynamics properties of (trimethylbenzene + propyl acetate, or butyl acetate) from T = 298.15 K to 313.15 K
srf	0.03	N/m	308.15	Densities, surface tensions, and derived surface thermodynamics properties of (trimethylbenzene + propyl acetate, or butyl acetate) from T = 298.15 K to 313.15 K
srf	0.03	N/m	303.15	Densities, surface tensions, and derived surface thermodynamics properties of (trimethylbenzene + propyl acetate, or butyl acetate) from T = 298.15 K to 313.15 K
srf	0.03	N/m	313.15	Excess Molar Volumes and Surface Tensions of 1,2,4-Trimethylbenzene and 1,3,5-Trimethylbenzene with Isopropyl Acetate and Isobutyl Acetate at (298.15, 308.15, and 313.15) K
srf	0.03	N/m	313.15	Excess Molar Volumes and Surface Tensions of Trimethylbenzene + Ethylene Glycol Ester at 298.15 K and 313.15 K

tcondl	0.14	W/m×K	296.36	Thermal Conductivity and Thermal Diffusivity of Twenty-Nine Liquids: Alkenes, Cyclic (Alkanes, Alkenes, Alkadienes, Aromatics), and Deuterated Hydrocarbons	
tcondl	0.14	W/m×K	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	296.66	Thermal Conductivity and Thermal Diffusivity of Twenty-Nine Liquids: Alkenes, Cyclic (Alkanes, Alkenes, Alkadienes, Aromatics), and Deuterated Hydrocarbons	
tcondl	0.13	W/m×K	313.44	Thermal Conductivity and Thermal Diffusivity of Twenty-Nine Liquids: Alkenes, Cyclic (Alkanes, Alkenes, Alkadienes, Aromatics), and Deuterated Hydrocarbons	
tcondl	0.13	W/m×K	313.60	Thermal Conductivity and Thermal Diffusivity of Twenty-Nine Liquids: Alkenes, Cyclic (Alkanes, Alkenes, Alkadienes, Aromatics), and Deuterated Hydrocarbons	

toondl	0.42	W/m×K	242.72	The awar of	
tcondl	0.13	vv/III×K	313.73	Thermal Conductivity and Thermal Diffusivity of Twenty-Nine Liquids: Alkenes, Cyclic (Alkanes, Alkenes, Alkadienes, Aromatics), and Deuterated Hydrocarbons	
tcondl	0.13	W/m×K	331.99	Thermal Conductivity and Thermal Diffusivity of Twenty-Nine Liquids: Alkenes, Cyclic (Alkanes, Alkenes, Alkadienes, Aromatics), and Deuterated Hydrocarbons	
tcondl	0.14	W/m×K	277.16	Thermal Conductivity and Thermal Diffusivity of Twenty-Nine Liquids: Alkenes, Cyclic (Alkanes, Alkenes, Alkadienes, Aromatics), and Deuterated Hydrocarbons	
tcondl	0.13	W/m×K	332.28	Thermal Conductivity and Thermal Diffusivity of Twenty-Nine Liquids: Alkenes, Cyclic (Alkanes, Alkenes, Alkadienes, Aromatics), and Deuterated Hydrocarbons	
tcondl	0.14	W/m×K	277.04	Thermal Conductivity and Thermal Diffusivity of Twenty-Nine Liquids: Alkenes, Cyclic (Alkanes, Alkenes, Alkadienes, Aromatics), and Deuterated Hydrocarbons	

tcondl	0.14	W/m×K	258.95	Thermal Conductivity and Thermal Diffusivity of Twenty-Nine Liquids: Alkenes, Cyclic (Alkanes, Alkenes, Alkadienes, Aromatics), and Deuterated Hydrocarbons	
tcondl	0.14	W/m×K	258.83	Thermal Conductivity and Thermal Diffusivity of Twenty-Nine Liquids: Alkenes, Cyclic (Alkanes, Alkenes, Alkadienes, Aromatics), and Deuterated Hydrocarbons	
tcondl	0.14	W/m×K	258.66	Thermal Conductivity and Thermal Diffusivity of Twenty-Nine Liquids: Alkenes, Cyclic (Alkanes, Alkenes, Alkadienes, Aromatics), and Deuterated Hydrocarbons	
tcondl	0.14	W/m×K	276.88	Thermal Conductivity and Thermal Diffusivity of Twenty-Nine Liquids: Alkenes, Cyclic (Alkanes, Alkenes, Alkadienes, Aromatics), and Deuterated Hydrocarbons	
tcondl	0.13	W/m×K	332.16	Thermal Conductivity and Thermal Diffusivity of Twenty-Nine Liquids: Alkenes, Cyclic (Alkanes, Alkenes, Alkadienes, Aromatics), and Deuterated Hydrocarbons	

Correlations

Information	Value

Property code	pvap
Equation	$ln(Pvp) = A + B/T + C*ln(T) + D*T^2$
Coeff. A	8.58665e+01
Coeff. B	-8.51220e+03
Coeff. C	-1.03429e+01
Coeff. D	5.70952e-06
Temperature range (K), min.	228.46
Temperature range (K), max.	637.38

Sources

Estimated Solubility Method:

http://pubs.acs.org/doi/suppl/10.1021/ci034243x/suppl_file/ci034243xsi20040112_053635.txt

NIST Webbook:

http://webbook.nist.gov/cgi/cbook.cgi?ID=C108678&Units=SI

Excess Molar Volumes and Surface

https://www.doi.org/10.1021/je060490w

https://www.doi.org/10.1016/j.jct.2017.01.016

Excess Molar Volumes and Surface
Tensions of 1,2,4-Trimethylbenzene
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Jest all yetrofuran with Aromatic
Hydrocal years are the perties rest from https://www.doi.org/10.1016/j.jct.2005.1

http://pubs.acs.org/doi/abs/10.1021/ci990307l

https://www.doi.org/10.1016/j.jct.2005.10.022 https://www.doi.org/10.1016/j.fluid.2015.09.030 https://www.doi.org/10.1016/j.fluid.2012.09.013

https://www.doi.org/10.1021/je034162x https://www.doi.org/10.1016/j.fluid.2017.09.011

https://www.doi.org/10.1021/je3010535

Experimental Unitary and Thermal Conductivity and Thermal Conductivity and Thermal Diffusivity of Twenty-Nine Liquids: Avaluate Oydic (Alkanes, Alkanes, Alk

https://www.doi.org/10.1016/j.jct.2004.11.023 https://www.doi.org/10.1021/acs.jced.7b01003

https://www.doi.org/10.1016/j.jct.2006.09.007

https://www.doi.org/10.1021/je060170c

Tolliene, o-Xylene, m-Xylene, p-Xylene, and Mesitylene with Anisole at (288.15, 5.45). Holder of 1,2,4-Trimethylbenzene delacts, but had the benzene with

https://www.cheric.org/files/research/kdb/mol/mol664.mol

https://www.doi.org/10.1021/je800046k

Isopropyl Acetate and Isobutyl Acetate Expess 19030 volumes and refractive indices of (methoxybenzene + benzene, or toluene, or o-xylene, or m-xylene, or p-xylene, or mesitylene) binary

https://en.wikipedia.org/wiki/Joback_method https://www.doi.org/10.1016/j.jct.2006.02.001

mixtures between T = (288.15 to 303.15) K:

infinite dilution of organic solutes in the constitution organic organic solution binary mixtures of methylcyclohexane winniseliguidepenilistrijip kojanethyl nastyveneen o antsoperesel (2900), sonati saktisenstatisenstatisenstati sonati saktisenstatisenstatisens sonatisenstati propyl acetate, or butyl acetate) from T Refractive Index for Binary Mixtures Ubnaming ordevisination in the stylene at the properties of Binary Mixtures at the properties of Binary Mixtures of Dansities and wholestic properties of Binary Mixtures and Binary Mixtures of Dansities and Binary Mixtures of Binary Mixtures of Dansities and Binary Mixtures of Binary Mixtures Binary Bina Densities of the properties of the properties of the state of the s Liquid-liquid equilibria for ternary

Measurement of activity coefficients at https://www.doi.org/10.1016/j.jct.2013.10.026

https://www.doi.org/10.1016/j.jct.2018.07.014

https://www.doi.org/10.1016/j.jct.2006.07.025

https://www.cheric.org/research/kdb/hcprop/showprop.php?cmpid=664

https://www.doi.org/10.1016/j.jct.2008.07.009

http://link.springer.com/article/10.1007/BF02311772

https://www.doi.org/10.1016/j.fluid.2016.01.005

https://www.cheric.org/research/kdb/hcprop/showprop.php?cmpid=664

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Beeneraisa Parapank) methylbenzene at
sysess gralar volumes of (octane +
benzene, or toluene, or 1,3-xylene, or
benzene, or toluene, or 1,3-xylene, or
benzene, with the entire terminal of terminal or termin https://www.doi.org/10.1016/j.jct.2007.10.010

Legend

af: Acentric Factor affp: Proton affinity Gas basicity basg:

Standard liquid enthalpy of combustion chl:

Ideal gas heat capacity cpg: cpl: Liquid phase heat capacity

Dipole Moment dm: dvisc: Dynamic viscosity

gf: Standard Gibbs free energy of formation

hcg: Heat of Combustion, Gross form hcn: Heat of Combustion, Net Form

hf: 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/llogp:Octanol/Water partition coefficientmcvol:McGowan's characteristic volume

pc: Critical Pressurepvap: Vapor pressurerfi: Refractive Indexrhol: Liquid Density

rinpol: Non-polar retention indices

ripol: Polar retention indices

sg: Molar entropy at standard conditions

sl: Liquid phase molar entropy at standard conditions

speedsl: Speed of sound in fluid

srf: Surface Tension

tb: Normal Boiling Point Temperature

tc: Critical Temperature

tcondl: Liquid thermal conductivitytf: Normal melting (fusion) pointtt: Triple Point Temperature

vc: Critical Volume

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