

Ethyl ether

Other names:	(C ₂ H ₅) ₂ O 1,1'-Oxybisethane 1,1'-oxybis-ethane 3-Oxapentane ANAESTHETIC ETHER Aether Anesthesia ether Anesthetic ether DIETHYL OXIDE Diaethylaether Diethyl ether Dwuetylowy eter Etere etilico Ethane, 1,1'-oxybis- Ether Ether ethylique Ether, ethyl Ethoxy ethane Ethoxyethane Ethyl ether anhydrous A.C.S. Ethyl ether, tech. Ethyl oxide NSC 100036 Oxyde d'ethyle Pronarcol Rcra waste number U117 Solvent ether Sulfuric ether UN 1155
Inchi:	InChI=1S/C ₄ H ₁₀ O/c1-3-5-4-2/h3-4H ₂ ,1-2H ₃
InchiKey:	RTZKZFJDLAIYFH-UHFFFAOYSA-N
Formula:	C ₄ H ₁₀ O
SMILES:	CCOCC
Mol. weight [g/mol]:	74.12
CAS:	60-29-7

Physical Properties

Property code	Value	Unit	Source
af	0.2810		KDB
affp	828.40	kJ/mol	NIST Webbook
aigt	453.15	K	KDB
basg	801.00	kJ/mol	NIST Webbook
chg	-2751.10 ± 0.75	kJ/mol	NIST Webbook
chg	-2726.30 ± 1.80	kJ/mol	NIST Webbook
chl	-2732.10 ± 1.90	kJ/mol	NIST Webbook
dm	1.30	debye	KDB
fll	1.85	% in Air	KDB
flu	36.50	% in Air	KDB
fpc	233.15	K	KDB
fpo	228.15	K	KDB
gf	-122.40	kJ/mol	KDB
gyrad	3.1400		KDB
hf	-252.40	kJ/mol	KDB
hf	-252.70 ± 2.00	kJ/mol	NIST Webbook
hf	-244.00	kJ/mol	NIST Webbook
hf	-252.20 ± 0.79	kJ/mol	NIST Webbook
hfl	-271.20 ± 1.90	kJ/mol	NIST Webbook
hfus	7.30	kJ/mol	Joback Method
hvap	26.91	kJ/mol	Joback Method
ie	9.60 ± 0.01	eV	NIST Webbook
ie	9.59	eV	NIST Webbook
ie	9.66	eV	NIST Webbook
ie	9.61	eV	NIST Webbook
ie	9.53 ± 0.02	eV	NIST Webbook
ie	9.51 ± 0.03	eV	NIST Webbook
ie	9.50 ± 0.01	eV	NIST Webbook
ie	9.52 ± 0.07	eV	NIST Webbook
ie	9.41	eV	NIST Webbook
ie	9.51	eV	NIST Webbook
ie	9.70	eV	NIST Webbook
log10ws	-0.09		Estimated Solubility Method
log10ws	-0.09		Aqueous Solubility Prediction Method
logp	1.043		Crippen Method
mcvol	73.090	ml/mol	McGowan Method
nfpaf	%!d(float64=4)		KDB
nfpah	%!d(float64=2)		KDB
pc	3675.00 ± 39.99	kPa	NIST Webbook
pc	3600.00 ± 202.65	kPa	NIST Webbook
pc	3676.00 ± 60.79	kPa	NIST Webbook

pc	3638.00 ± 303.98	kPa	NIST Webbook
pc	3607.70 ± 41.36	kPa	NIST Webbook
pc	3657.80 ± 41.36	kPa	NIST Webbook
pc	3624.20 ± 81.06	kPa	NIST Webbook
pc	3610.00 ± 101.32	kPa	NIST Webbook
pc	3545.00 ± 117.68	kPa	NIST Webbook
pc	3651.00 ± 34.47	kPa	NIST Webbook
pc	3605.94 ± 27.57	kPa	NIST Webbook
pc	3637.60 ± 0.36	kPa	NIST Webbook
pc	3605.00	kPa	Experimental Study of the Thermodynamic Properties of Diethyl Ether (DEE) at Saturation
pc	3638.00	kPa	KDB
pc	3740.00 ± 303.98	kPa	NIST Webbook
pc	3607.70 ± 53.32	kPa	NIST Webbook
pc	4050.00 ± 303.98	kPa	NIST Webbook
pc	3739.00 ± 101.32	kPa	NIST Webbook
pc	3668.00 ± 81.06	kPa	NIST Webbook
rinpol	515.00		NIST Webbook
rinpol	499.00		NIST Webbook
rinpol	485.00		NIST Webbook
rinpol	485.00		NIST Webbook
rinpol	470.00		NIST Webbook
rinpol	510.00		NIST Webbook
rinpol	486.00		NIST Webbook
rinpol	504.00		NIST Webbook
rinpol	495.00		NIST Webbook
rinpol	496.00		NIST Webbook
rinpol	478.00		NIST Webbook
rinpol	499.00		NIST Webbook
rinpol	473.00		NIST Webbook
rinpol	471.00		NIST Webbook
rinpol	476.00		NIST Webbook
rinpol	482.60		NIST Webbook
rinpol	476.00		NIST Webbook
rinpol	474.00		NIST Webbook
rinpol	480.00		NIST Webbook
rinpol	484.00		NIST Webbook
rinpol	476.00		NIST Webbook
rinpol	500.00		NIST Webbook
rinpol	493.00		NIST Webbook
rinpol	494.00		NIST Webbook
rinpol	464.00		NIST Webbook
rinpol	510.00		NIST Webbook

ripol	485.00		NIST Webbook
ripol	485.00		NIST Webbook
ripol	504.00		NIST Webbook
ripol	509.00		NIST Webbook
ripol	508.00		NIST Webbook
ripol	504.00		NIST Webbook
ripol	477.00		NIST Webbook
ripol	484.00		NIST Webbook
ripol	567.00		NIST Webbook
ripol	630.00		NIST Webbook
ripol	577.00		NIST Webbook
ripol	570.00		NIST Webbook
ripol	577.00		NIST Webbook
ripol	570.00		NIST Webbook
ripol	567.00		NIST Webbook
ripol	576.00		NIST Webbook
ripol	596.00		NIST Webbook
ripol	608.00		NIST Webbook
ripol	606.00		NIST Webbook
ripol	618.00		NIST Webbook
ripol	640.00		NIST Webbook
ripol	590.00		NIST Webbook
ripol	616.00		NIST Webbook
ripol	630.00		NIST Webbook
ripol	567.00		NIST Webbook
ripol	590.00		NIST Webbook
ripol	640.00		NIST Webbook
ripol	596.00		NIST Webbook
ripol	619.00		NIST Webbook
sg	342.20	J/molxK	NIST Webbook
sl	253.50	J/molxK	NIST Webbook
sl	283.30	J/molxK	NIST Webbook
sl	252.70	J/molxK	NIST Webbook
tb	307.65	K	NIST Webbook
tb	307.80 ± 0.50	K	NIST Webbook
tb	307.69 ± 0.25	K	NIST Webbook
tb	307.81 ± 0.20	K	NIST Webbook
tb	307.80 ± 0.30	K	NIST Webbook
tb	307.75 ± 0.15	K	NIST Webbook
tb	307.65 ± 0.50	K	NIST Webbook
tb	307.45 ± 0.30	K	NIST Webbook
tb	307.75 ± 0.30	K	NIST Webbook
tb	307.63 ± 0.02	K	NIST Webbook
tb	307.80 ± 0.30	K	NIST Webbook

tb	308.20 ± 1.00	K	NIST Webbook
tb	307.15 ± 0.50	K	NIST Webbook
tb	307.60	K	NIST Webbook
tb	307.90 ± 0.70	K	NIST Webbook
tb	307.60	K	KDB
tb	309.20 ± 0.30	K	NIST Webbook
tb	307.80 ± 0.40	K	NIST Webbook
tb	307.75 ± 0.20	K	NIST Webbook
tb	307.80 ± 0.40	K	NIST Webbook
tb	307.70 ± 0.30	K	NIST Webbook
tb	307.70	K	NIST Webbook
tb	307.80 ± 0.40	K	NIST Webbook
tc	466.50 ± 0.40	K	NIST Webbook
tc	472.50 ± 5.00	K	NIST Webbook
tc	466.76 ± 0.40	K	NIST Webbook
tc	467.60 ± 0.50	K	NIST Webbook
tc	466.00 ± 4.00	K	NIST Webbook
tc	466.76 ± 0.50	K	NIST Webbook
tc	467.50 ± 0.60	K	NIST Webbook
tc	466.60 ± 0.80	K	NIST Webbook
tc	467.90 ± 1.00	K	NIST Webbook
tc	466.70 ± 1.00	K	NIST Webbook
tc	467.00 ± 0.60	K	NIST Webbook
tc	466.00 ± 2.00	K	NIST Webbook
tc	466.76 ± 0.40	K	NIST Webbook
tc	467.80 ± 1.00	K	NIST Webbook
tc	466.80 ± 1.00	K	NIST Webbook
tc	466.70 ± 0.40	K	NIST Webbook
tc	466.56 ± 0.40	K	NIST Webbook
tc	464.00 ± 2.00	K	NIST Webbook
tc	467.00 ± 0.40	K	NIST Webbook
tc	465.80 ± 1.00	K	NIST Webbook
tc	466.80 ± 0.60	K	NIST Webbook
tc	466.70 ± 0.40	K	NIST Webbook
tc	467.00 ± 2.00	K	NIST Webbook
tc	466.74 ± 0.04	K	NIST Webbook
tc	466.70 ± 0.30	K	NIST Webbook
tc	466.70	K	NIST Webbook
tc	466.74	K	KDB
tc	468.70 ± 2.00	K	NIST Webbook
tc	463.20 ± 3.00	K	NIST Webbook
tc	470.00 ± 3.00	K	NIST Webbook
tc	465.50 ± 2.00	K	NIST Webbook
tf	149.75 ± 0.20	K	NIST Webbook

tf	156.85	K	NIST Webbook
tf	157.15 ± 0.00	K	NIST Webbook
tf	149.90 ± 0.80	K	NIST Webbook
tf	156.90 ± 0.80	K	NIST Webbook
tf	157.07	K	Aqueous Solubility Prediction Method
tf	156.80	K	KDB
tf	156.15 ± 1.50	K	NIST Webbook
tf	157.00 ± 0.30	K	NIST Webbook
tf	149.85 ± 0.30	K	NIST Webbook
tf	150.61 ± 0.50	K	NIST Webbook
tf	156.85 ± 0.25	K	NIST Webbook
tf	149.85 ± 0.20	K	NIST Webbook
tf	157.00 ± 0.40	K	NIST Webbook
tf	122.00 ± 2.00	K	NIST Webbook
tf	156.75 ± 0.30	K	NIST Webbook
tf	149.85 ± 0.50	K	NIST Webbook
tt	156.92 ± 0.05	K	NIST Webbook
tt	156.92	K	KDB
tt	156.80 ± 0.20	K	NIST Webbook
tt	156.92 ± 0.02	K	NIST Webbook
tt	149.86 ± 0.02	K	NIST Webbook
vc	0.280	m3/kmol	KDB
vc	0.274 ± 0.005	m3/kmol	NIST Webbook
zc	0.2624880		KDB
zra	0.27		KDB

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	121.94	J/mol×K	309.98	NIST Webbook
cpg	126.57	J/mol×K	329.99	NIST Webbook
cpg	131.32	J/mol×K	350.00	NIST Webbook
cpg	137.21	J/mol×K	375.00	NIST Webbook
cpg	143.27	J/mol×K	400.01	NIST Webbook
cpg	149.10	J/mol×K	424.99	NIST Webbook
cpg	155.11	J/mol×K	450.04	NIST Webbook
cpl	179.90	J/mol×K	308.00	NIST Webbook
cpl	164.80	J/mol×K	255.20	NIST Webbook
cpl	167.40	J/mol×K	290.00	NIST Webbook
cpl	172.00	J/mol×K	293.00	NIST Webbook

cpl	179.10	J/molxK	286.60	NIST Webbook
cpl	171.88	J/molxK	293.15	NIST Webbook
cpl	172.50	J/molxK	298.15	NIST Webbook
cpl	170.70	J/molxK	290.00	NIST Webbook
dvisc	0.0002481	Paxs	287.30	Joback Method
dvisc	0.0004629	Paxs	235.21	Joback Method
dvisc	0.0007105	Paxs	209.16	Joback Method
dvisc	0.0001963	Paxs	313.34	Joback Method
dvisc	0.0012317	Paxs	183.12	Joback Method
dvisc	0.0025629	Paxs	157.07	Joback Method
dvisc	0.0003285	Paxs	261.25	Joback Method
hfust	7.19	kJ/mol	156.90	NIST Webbook
hfust	7.30	kJ/mol	156.80	NIST Webbook
hfust	7.19	kJ/mol	156.90	NIST Webbook
hvapt	28.40	kJ/mol	253.00	NIST Webbook
hvapt	26.69	kJ/mol	307.70	KDB
hvapt	26.52	kJ/mol	307.60	NIST Webbook
hvapt	27.53	kJ/mol	285.00	NIST Webbook
hvapt	28.10	kJ/mol	307.50	NIST Webbook
hvapt	26.90	kJ/mol	382.00	NIST Webbook
hvapt	27.50	kJ/mol	332.50	NIST Webbook
hvapt	26.70	kJ/mol	442.00	NIST Webbook
hvapt	29.50	kJ/mol	289.50	NIST Webbook
hvapt	27.25 ± 0.01	kJ/mol	295.63	NIST Webbook
pvap	62.93	kPa	294.78	Isothermal vapour liquid equilibria of binary systems of 1,2-dichloroethane with ethers
pvap	2150.00	kPa	434.30	Experimental High-Pressure Isochoric/Isoplethic Equilibrium for the Systems Propane + n-Pentane and Propane + Diethyl Ether
pvap	2390.00	kPa	438.90	Experimental High-Pressure Isochoric/Isoplethic Equilibrium for the Systems Propane + n-Pentane and Propane + Diethyl Ether

pvap	1790.00	kPa	424.30	Experimental High-Pressure Isochoric/Isoplethic Equilibrium for the Systems Propane + n-Pentane and Propane + Diethyl Ether
pvap	179.77	kPa	324.89	Isothermal vapour liquid equilibria of binary systems of 1,2-dichloroethane with ethers
pvap	42.00	kPa	284.84	Isothermal vapour liquid equilibria of binary systems of 1,2-dichloroethane with ethers
pvap	179.65	kPa	324.89	Isothermal vapour liquid equilibria of binary systems of 1,2-dichloroethane with ethers
pvap	179.51	kPa	324.89	Isothermal vapour liquid equilibria of binary systems of 1,2-dichloroethane with ethers
pvap	129.42	kPa	314.75	Isothermal vapour liquid equilibria of binary systems of 1,2-dichloroethane with ethers
pvap	129.45	kPa	314.74	Isothermal vapour liquid equilibria of binary systems of 1,2-dichloroethane with ethers
pvap	62.89	kPa	294.77	Isothermal vapour liquid equilibria of binary systems of 1,2-dichloroethane with ethers
pvap	91.60	kPa	304.76	Isothermal vapour liquid equilibria of binary systems of 1,2-dichloroethane with ethers

pvap	91.56	kPa	304.75	Isothermal vapour liquid equilibria of binary systems of 1,2-dichloroethane with ethers
pvap	91.58	kPa	304.75	Isothermal vapour liquid equilibria of binary systems of 1,2-dichloroethane with ethers
pvap	41.98	kPa	284.83	Isothermal vapour liquid equilibria of binary systems of 1,2-dichloroethane with ethers
pvap	26.91	kPa	274.87	Isothermal vapour liquid equilibria of binary systems of 1,2-dichloroethane with ethers
pvap	26.90	kPa	274.86	Isothermal vapour liquid equilibria of binary systems of 1,2-dichloroethane with ethers
pvap	17.07	kPa	265.45	Isothermal vapour liquid equilibria of binary systems of 1,2-dichloroethane with ethers
pvap	17.06	kPa	265.44	Isothermal vapour liquid equilibria of binary systems of 1,2-dichloroethane with ethers
pvap	17.06	kPa	265.44	Isothermal vapour liquid equilibria of binary systems of 1,2-dichloroethane with ethers
pvap	10.14	kPa	255.50	Isothermal vapour liquid equilibria of binary systems of 1,2-dichloroethane with ethers
pvap	10.13	kPa	255.48	Isothermal vapour liquid equilibria of binary systems of 1,2-dichloroethane with ethers

pvap	10.11	kPa	255.47	Isothermal vapour liquid equilibria of binary systems of 1,2-dichloroethane with ethers
pvap	129.30	kPa	314.74	Isothermal vapour liquid equilibria of binary systems of 1,2-dichloroethane with ethers
rfi	1.34970		293.15	Solubilities of Phosphorus-Containing Compounds in Selected Solvents
rhol	288.30	kg/m3	466.80	PvT and thermal-pressure coefficient measurements of diethyl ether (DEE) in the critical and supercritical regions
rhol	233.70	kg/m3	466.66	PvT and thermal-pressure coefficient measurements of diethyl ether (DEE) in the critical and supercritical regions
rhol	261.20	kg/m3	466.85	PvT and thermal-pressure coefficient measurements of diethyl ether (DEE) in the critical and supercritical regions
rhol	260.70	kg/m3	466.83	PvT and thermal-pressure coefficient measurements of diethyl ether (DEE) in the critical and supercritical regions
rhol	255.00	kg/m3	466.83	PvT and thermal-pressure coefficient measurements of diethyl ether (DEE) in the critical and supercritical regions

rho1	517.30	kg/m3	425.19	PvT and thermal-pressure coefficient measurements of diethyl ether (DEE) in the critical and supercritical regions
rho1	275.70	kg/m3	466.82	PvT and thermal-pressure coefficient measurements of diethyl ether (DEE) in the critical and supercritical regions
rho1	713.00	kg/m3	293.00	KDB
rho1	707.79	kg/m3	298.15	Volumetric properties of (N,N-dimethylformamide + aliphatic diethers) at Temperatures ranging from (298.15 to 358.15) K
rho1	534.60	kg/m3	416.10	PvT and thermal-pressure coefficient measurements of diethyl ether (DEE) in the critical and supercritical regions
rho1	278.70	kg/m3	466.81	PvT and thermal-pressure coefficient measurements of diethyl ether (DEE) in the critical and supercritical regions
rho1	485.20	kg/m3	437.14	PvT and thermal-pressure coefficient measurements of diethyl ether (DEE) in the critical and supercritical regions

rho1	441.50	kg/m3	450.60	PvT and thermal-pressure coefficient measurements of diethyl ether (DEE) in the critical and supercritical regions
rho1	440.80	kg/m3	450.77	PvT and thermal-pressure coefficient measurements of diethyl ether (DEE) in the critical and supercritical regions
rho1	394.80	kg/m3	459.61	PvT and thermal-pressure coefficient measurements of diethyl ether (DEE) in the critical and supercritical regions
rho1	348.20	kg/m3	464.79	PvT and thermal-pressure coefficient measurements of diethyl ether (DEE) in the critical and supercritical regions
rho1	212.60	kg/m3	466.12	PvT and thermal-pressure coefficient measurements of diethyl ether (DEE) in the critical and supercritical regions
rho1	310.80	kg/m3	466.47	PvT and thermal-pressure coefficient measurements of diethyl ether (DEE) in the critical and supercritical regions
rho1	296.70	kg/m3	466.75	PvT and thermal-pressure coefficient measurements of diethyl ether (DEE) in the critical and supercritical regions

sfust	46.60	J/molxK	156.80	NIST Webbook
srf	0.01	N/m	348.17	Surface Tension of Diethyl Ether, Diisopropyl Ether, and Dibutyl Ether
srf	0.01	N/m	358.18	Surface Tension of Diethyl Ether, Diisopropyl Ether, and Dibutyl Ether
srf	0.01	N/m	323.16	Surface Tension of Diethyl Ether, Diisopropyl Ether, and Dibutyl Ether
srf	0.01	N/m	353.19	Surface Tension of Diethyl Ether, Diisopropyl Ether, and Dibutyl Ether
srf	0.01	N/m	373.17	Surface Tension of Diethyl Ether, Diisopropyl Ether, and Dibutyl Ether
srf	0.01	N/m	368.18	Surface Tension of Diethyl Ether, Diisopropyl Ether, and Dibutyl Ether
srf	0.01	N/m	363.16	Surface Tension of Diethyl Ether, Diisopropyl Ether, and Dibutyl Ether
srf	0.01	N/m	343.17	Surface Tension of Diethyl Ether, Diisopropyl Ether, and Dibutyl Ether
srf	0.01	N/m	338.17	Surface Tension of Diethyl Ether, Diisopropyl Ether, and Dibutyl Ether
srf	0.01	N/m	333.18	Surface Tension of Diethyl Ether, Diisopropyl Ether, and Dibutyl Ether
srf	0.01	N/m	328.12	Surface Tension of Diethyl Ether, Diisopropyl Ether, and Dibutyl Ether
srf	0.01	N/m	318.16	Surface Tension of Diethyl Ether, Diisopropyl Ether, and Dibutyl Ether

srf	0.01	N/m	313.19	Surface Tension of Diethyl Ether, Diisopropyl Ether, and Dibutyl Ether
srf	0.02	N/m	308.11	Surface Tension of Diethyl Ether, Diisopropyl Ether, and Dibutyl Ether
srf	0.02	N/m	303.17	Surface Tension of Diethyl Ether, Diisopropyl Ether, and Dibutyl Ether
srf	0.02	N/m	298.10	Surface Tension of Diethyl Ether, Diisopropyl Ether, and Dibutyl Ether
srf	0.02	N/m	293.16	Surface Tension of Diethyl Ether, Diisopropyl Ether, and Dibutyl Ether
srf	0.02	N/m	288.18	Surface Tension of Diethyl Ether, Diisopropyl Ether, and Dibutyl Ether
srf	0.02	N/m	283.18	Surface Tension of Diethyl Ether, Diisopropyl Ether, and Dibutyl Ether
srf	0.02	N/m	278.18	Surface Tension of Diethyl Ether, Diisopropyl Ether, and Dibutyl Ether
srf	0.02	N/m	273.18	Surface Tension of Diethyl Ether, Diisopropyl Ether, and Dibutyl Ether
srf	0.02	N/m	268.18	Surface Tension of Diethyl Ether, Diisopropyl Ether, and Dibutyl Ether
srf	0.02	N/m	263.17	Surface Tension of Diethyl Ether, Diisopropyl Ether, and Dibutyl Ether
srf	0.02	N/m	298.20	KDB

srf	0.02	N/m	258.17	Surface Tension of Diethyl Ether, Diisopropyl Ether, and Dibutyl Ether
svapt	96.60	J/molxK	285.00	NIST Webbook

Pressure Dependent Properties

Property code	Value	Unit	Pressure [kPa]	Source
tbp	307.75	K	96.60	Low cost apparatus for rapid boiling point determination of small air sensitive samples under inert atmosphere

Correlations

Information	Value
Property code	pvap
Equation	$\ln(P_{vp}) = A + B/(T + C)$
Coeff. A	1.41959e+01
Coeff. B	-2.55920e+03
Coeff. C	-4.04930e+01
Temperature range (K), min.	224.50
Temperature range (K), max.	328.55

Information	Value
Property code	pvap
Equation	$\ln(P_{vp}) = A + B/T + C \cdot \ln(T) + D \cdot T^2$
Coeff. A	9.51470e+01
Coeff. B	-6.34051e+03
Coeff. C	-1.24379e+01
Coeff. D	1.41292e-05
Temperature range (K), min.	156.85
Temperature range (K), max.	466.70

Datasets

Thermal conductivity, W/m/K

Temperature, K - Liquid	Pressure, kPa - Liquid	Thermal conductivity, W/m/K - Liquid
234.64	100.00	0.1453
234.88	20100.00	0.1543
234.90	30300.00	0.1565
234.92	20100.00	0.1542
235.03	100.00	0.1461
235.09	20200.00	0.1538
235.10	10100.00	0.1496
235.17	5100.00	0.1478
235.22	30200.00	0.1563
235.40	30400.00	0.1559
235.48	10100.00	0.1499
235.53	5100.00	0.1479
235.89	10100.00	0.1500
235.93	5100.00	0.1477
235.94	100.00	0.1456
254.64	20200.00	0.1484
254.74	30000.00	0.1514
254.75	5200.00	0.1408
254.86	30000.00	0.1512
254.91	19700.00	0.1477
254.95	100.00	0.1386
254.98	10100.00	0.1427
254.99	4900.00	0.1411
255.26	100.00	0.1386
255.28	29900.00	0.1512
255.34	20200.00	0.1475
255.37	5100.00	0.1407
255.38	10200.00	0.1432
255.69	10000.00	0.1427
255.70	100.00	0.1386
274.69	100.00	0.1315
274.70	20100.00	0.1409
274.71	5000.00	0.1338
274.71	10000.00	0.1363

274.92	30000.00	0.1447
274.93	20000.00	0.1409
274.96	100.00	0.1319
274.97	10000.00	0.1362
275.21	30000.00	0.1450
275.37	100.00	0.1317
275.38	5000.00	0.1339
275.56	10100.00	0.1364
275.64	30000.00	0.1450
275.70	20000.00	0.1407
275.79	5000.00	0.1340
294.61	20200.00	0.1366
294.79	10100.00	0.1311
294.81	5100.00	0.1280
294.83	29900.00	0.1419
294.93	20000.00	0.1366
295.04	5000.00	0.1280
295.06	10100.00	0.1309
295.08	29700.00	0.1416
295.25	20000.00	0.1365
295.26	10000.00	0.1308
295.31	100.00	0.1248
295.43	5100.00	0.1277
295.53	29900.00	0.1419
295.60	100.00	0.1252
296.02	100.00	0.1250
314.33	5100.00	0.1201
314.44	5300.00	0.1205
314.55	30100.00	0.1357
314.60	10000.00	0.1231
314.95	10100.00	0.1236
314.95	20100.00	0.1291
314.95	30100.00	0.1361
315.01	200.00	0.1187
315.13	200.00	0.1182
315.21	5200.00	0.1202
315.39	30100.00	0.1356
315.50	200.00	0.1182
315.52	10100.00	0.1232
315.56	20200.00	0.1289
315.91	20100.00	0.1287
335.02	5100.00	0.1127
335.13	20300.00	0.1222
335.21	5100.00	0.1127

335.28	200.00	0.1093
335.30	30200.00	0.1275
335.33	10200.00	0.1159
335.33	19900.00	0.1217
335.63	5200.00	0.1126
335.71	20400.00	0.1224
335.72	10100.00	0.1162
335.72	30000.00	0.1271
335.78	200.00	0.1091
336.08	200.00	0.1092
336.13	30200.00	0.1269
336.17	10100.00	0.1159
354.59	30000.00	0.1208
354.75	5000.00	0.1044
355.05	10000.00	0.1084
355.05	30000.00	0.1206
355.08	500.00	0.1001
355.18	20000.00	0.1150
355.32	10100.00	0.1082
355.37	5000.00	0.1048
355.39	30000.00	0.1204
355.52	500.00	0.1001
355.52	20000.00	0.1148
355.74	5000.00	0.1045
355.80	10000.00	0.1079
355.82	500.00	0.1002
356.03	20000.00	0.1147
374.62	10000.00	0.1004
374.70	5200.00	0.0974
374.92	30000.00	0.1132
375.01	29700.00	0.1131
375.06	10000.00	0.1011
375.22	20000.00	0.1081
375.25	5100.00	0.0973
375.40	5000.00	0.0973
375.46	10000.00	0.1008
375.51	29800.00	0.1135
375.62	20000.00	0.1082
375.72	700.00	0.0926
376.18	700.00	0.0925
376.28	20000.00	0.1076
376.80	700.00	0.0923

Molar heat capacity at constant volume, J/K/mol

Mass density, kg/m ³ - Fluid (supercritical or subcritical phases)	Temperature, K - Fluid (supercritical or subcritical phases)	Molar heat capacity at constant volume, J/K/mol - Fluid (supercritical or subcritical phases)
534.6	416.10	156.7672
534.6	416.11	156.026
534.6	416.19	155.2106
534.6	416.30	153.58
534.6	416.40	154.5435
534.6	416.51	153.6541
534.6	416.62	153.2093
534.6	417.58	153.58
534.6	417.69	154.247
534.6	417.79	153.3576
534.6	417.90	154.3212
534.6	418.01	153.8764
534.6	421.51	155.2848
534.6	421.73	154.6918
534.6	421.83	155.1365
534.6	421.94	154.247
534.6	422.05	154.0988
534.6	426.25	155.9518
534.6	426.49	156.3966
534.6	426.59	154.0988
534.6	426.70	154.6918
534.6	426.80	155.2848
534.6	426.91	154.3212
534.6	426.96	155.5812
534.6	433.20	157.7308
534.6	433.31	158.1014
534.6	433.41	156.3225
534.6	433.52	158.1014
534.6	433.62	157.0637
534.6	433.73	155.433
534.6	433.83	155.1365
534.6	439.24	158.1014
534.6	439.35	157.3602
534.6	439.45	158.472
534.6	439.55	159.1391

534.6	439.66	158.472
534.6	439.76	157.0637
534.6	439.86	156.6931
534.6	439.97	158.7685
534.6	449.24	157.879
534.6	449.34	158.6202
534.6	449.44	159.2873
534.6	449.55	159.6579
534.6	449.75	158.6202
534.6	449.85	159.2873
534.6	449.96	160.0285
534.6	460.94	163.5122
534.6	461.04	162.1781
534.6	461.14	161.511
534.6	461.25	162.9934
534.6	461.35	160.8439
534.6	461.45	161.511
534.6	471.19	164.9206
534.6	471.29	165.2912
534.6	471.39	163.0675
534.6	471.49	163.0675
534.6	471.59	164.9206
534.6	471.69	163.8087
517.3	425.19	159.3614
517.3	425.23	158.0273
517.3	425.27	155.8777
517.3	425.32	154.3953
517.3	425.36	156.6189
517.3	425.44	155.5071
517.3	425.53	154.3953
517.3	425.63	154.7659
517.3	425.74	153.8764
517.3	426.05	154.9141
517.3	426.16	154.6177
517.3	426.26	154.0988
517.3	426.37	154.7659
517.3	426.48	153.9506
517.3	426.58	154.1729
517.3	426.69	154.3212
517.3	426.79	155.2106
517.3	426.90	154.84
517.3	427.00	154.5435
485.2	437.14	163.8087
485.2	437.27	163.1416

485.2	437.37	160.7698
485.2	437.47	161.8075
485.2	437.58	158.3237
485.2	437.68	159.5838
485.2	437.88	159.1391
485.2	438.00	156.7672
485.2	438.10	157.5825
485.2	438.20	158.0273
485.2	438.41	157.286
485.2	438.51	158.5461
485.2	438.62	157.7308
485.2	438.72	156.5448
485.2	445.95	158.2496
485.2	446.06	159.6579
485.2	446.16	158.6943
485.2	446.26	159.8062
485.2	446.47	157.7308
485.2	446.58	158.8426
485.2	460.03	165.217
485.2	460.13	163.957
485.2	460.23	165.8841
485.2	460.33	165.8841
485.2	460.44	164.4017
485.2	460.54	163.2158
485.2	460.64	162.9193
485.2	471.59	168.9972
485.2	471.69	167.8113
485.2	471.80	165.217
485.2	471.89	165.217
485.2	471.99	166.1806
485.2	472.09	169.8867
485.2	472.19	166.6995
485.2	472.29	169.442
485.2	479.25	173.5187
485.2	479.35	172.7033
485.2	479.45	172.2586
485.2	479.55	169.3679
485.2	479.64	170.6279
485.2	479.74	173.5187
485.2	479.85	173.5187
485.2	479.94	174.2599
485.2	480.05	170.6279
485.2	480.44	171.8139
485.2	480.54	172.7774

485.2	480.64	174.0375
485.2	480.73	173.741
485.2	480.93	172.481
485.2	481.03	170.4797
485.2	481.33	173.4445
485.2	492.92	179.4484
485.2	493.02	181.1532
485.2	493.11	181.8944
485.2	493.11	179.7449
485.2	493.21	176.4835
485.2	493.41	179.7449
485.2	493.51	177.8177
485.2	493.60	179.0037
485.2	504.28	184.9334
485.2	504.38	183.451
485.2	504.47	185.7487
485.2	504.57	182.7839
485.2	504.95	181.8203
441.5	450.60	170.2573
441.5	450.85	167.0701
441.5	450.93	170.9985
441.5	451.07	167.5889
441.5	451.18	165.81
441.5	451.28	168.6266
441.5	451.38	163.957
441.5	451.49	167.1442
441.5	452.20	163.2899
441.5	452.30	162.2522
441.5	452.40	164.6982
441.5	452.51	161.8075
441.5	452.57	165.4394
441.5	452.67	161.1404
441.5	452.77	162.771
441.5	462.04	166.2547
441.5	462.14	164.1793
441.5	462.25	166.996
441.5	462.35	164.8464
441.5	462.45	164.0311
441.5	462.55	163.2899
441.5	462.65	163.4381
440.8	450.77	171.9621
440.8	450.87	170.8503
440.8	450.97	169.0714
440.8	451.07	170.1832

440.8	451.39	166.6995
440.8	451.49	166.9218
440.8	451.59	164.9947
440.8	451.69	167.2183
440.8	451.80	164.6982
440.8	451.90	164.2535
440.8	452.00	165.6618
440.8	452.10	164.4758
440.8	452.21	165.0688
440.8	452.31	163.1416
440.8	462.36	164.3276
440.8	462.46	164.6982
440.8	462.56	164.0311
440.8	462.66	164.1793
440.8	462.76	165.81
440.8	462.86	164.8464
440.8	462.96	163.957
440.8	463.06	163.7346
440.8	477.76	172.8516
440.8	477.86	170.702
440.8	477.96	171.5174
440.8	478.06	169.9608
440.8	478.16	170.9985
440.8	478.26	169.6643
440.8	478.36	169.6643
440.8	478.46	172.5551
440.8	490.96	181.7462
440.8	491.06	182.7097
440.8	491.45	180.7085
440.8	491.55	178.9295
440.8	491.65	178.3366
440.8	491.75	180.0414
440.8	491.84	177.4471
394.8	459.61	178.6331
394.8	459.72	177.4471
394.8	459.82	173.4445
394.8	459.92	175.0011
394.8	460.02	173.2222
394.8	460.12	176.4835
394.8	460.23	171.6656
394.8	460.33	170.3314
394.8	460.74	173.6669
394.8	460.94	169.5902
394.8	461.04	173.3704

394.8	461.14	170.5538
394.8	461.35	168.4043
394.8	461.45	171.5174
394.8	472.79	172.1845
394.8	472.89	171.6656
394.8	473.09	171.295
394.8	473.19	170.3314
394.8	473.29	172.9257
394.8	473.39	169.9608
394.8	473.49	171.4433
394.8	487.34	169.0714
394.8	487.44	166.4771
394.8	487.53	168.6266
394.8	487.63	170.035
394.8	487.73	165.6618
394.8	487.83	169.2937
394.8	487.93	167.4407
394.8	499.44	165.5877
394.8	499.54	166.3289
394.8	499.63	167.3666
394.8	499.73	168.7008
394.8	499.83	164.4758
394.8	499.92	165.4394
394.8	500.12	165.5877
394.8	500.21	164.1052
394.8	518.00	169.2196
394.8	518.09	171.1468
394.8	518.28	169.8126
394.8	518.38	171.888
394.8	518.47	170.702
394.8	533.79	178.0401
394.8	533.98	178.7813
394.8	534.08	174.6305
394.8	534.17	176.78
394.8	534.26	175.7423
394.8	554.74	183.451
394.8	554.83	187.0829
394.8	554.92	183.8957
394.8	555.02	185.4522
394.8	555.20	185.897
394.8	555.29	182.265
394.8	555.38	183.451
394.8	574.77	193.3091
394.8	574.87	191.0855

394.8	574.96	188.936
394.8	575.05	192.4197
394.8	575.14	189.8254
394.8	575.23	191.382
394.8	575.32	190.3443
348.2	464.79	190.4925
348.2	464.82	186.1935
348.2	464.87	188.6395
348.2	464.91	182.9321
348.2	464.95	187.6018
348.2	464.99	185.8229
348.2	465.03	182.4133
348.2	465.07	184.6369
348.2	465.17	182.0426
348.2	465.27	184.4887
348.2	465.37	183.2286
348.2	465.47	182.265
348.2	470.58	180.7085
348.2	470.68	177.966
348.2	470.78	182.4133
348.2	470.88	179.4484
348.2	470.98	178.3366
348.2	471.08	182.0426
348.2	471.18	180.5602
348.2	471.28	177.373
310.8	466.47	203.8344
310.8	466.51	202.5002
310.8	466.55	202.0555
310.8	466.59	200.4989
310.8	466.63	196.7187
310.8	466.68	202.4261
310.8	466.78	199.7577
310.8	466.88	197.0893
310.8	466.98	199.2389
310.8	467.08	195.9034
310.8	467.28	199.4612
310.8	467.38	194.6433
310.8	467.48	197.0893
310.8	467.58	195.5328
310.8	467.79	195.8293
310.8	467.88	193.3833
310.8	467.98	195.2363
310.8	468.08	198.0529
310.8	468.19	192.9385

310.8	468.29	194.2727
310.8	480.13	171.9621
310.8	480.23	175.9647
310.8	480.33	177.8177
310.8	480.43	174.5564
310.8	480.53	172.8516
310.8	480.63	173.9634
310.8	480.73	171.3691
310.8	480.83	176.1129
310.8	499.30	186.1935
310.8	499.40	187.6759
310.8	499.50	189.0101
310.8	499.59	187.6018
310.8	499.69	184.6369
310.8	499.79	188.4912
310.8	499.89	188.0465
310.8	499.99	183.6733
296.7	466.75	210.6536
296.7	466.80	207.837
296.7	466.84	205.0203
296.7	466.92	201.8331
296.7	467.00	200.573
296.7	467.04	198.3494
296.7	467.08	199.7577
296.7	467.18	196.9411
296.7	467.28	200.9437
296.7	467.38	198.2012
296.7	467.48	199.0906
296.7	472.28	177.7436
296.7	472.38	173.8152
296.7	472.49	174.5564
296.7	472.59	176.8541
296.7	472.68	172.2586
296.7	472.78	175.5199
296.7	472.88	173.2222
296.7	472.98	177.7436
296.7	473.08	174.7787
296.7	473.19	176.5577
296.7	473.29	176.9283
296.7	473.39	174.2599
296.7	473.49	176.1129
288.3	466.80	218.6587
288.3	466.84	214.4338
288.3	466.88	209.5418

288.3	466.92	205.6874
288.3	466.96	198.4976
288.3	466.99	197.2376
288.3	467.04	195.9775
288.3	467.08	193.828
288.3	467.18	199.9801
288.3	467.28	192.0491
288.3	467.38	190.9372
288.3	467.48	193.235
288.3	467.58	196.1258
288.3	473.37	187.2312
288.3	473.47	183.6733
288.3	473.57	180.9308
288.3	473.67	188.0465
288.3	473.77	182.1909
288.3	473.87	183.7474
288.3	473.97	185.6005
288.3	474.07	181.0791
288.3	474.17	186.3417
288.3	480.38	185.4522
288.3	480.43	183.5251
288.3	480.53	181.8944
288.3	480.63	179.5225
288.3	480.73	181.1532
288.3	480.83	185.3781
288.3	480.93	184.8593
288.3	481.02	183.1545
288.3	481.19	186.1935
278.7	466.81	233.483
278.7	466.90	219.4741
278.7	466.94	226.3674
278.7	466.98	212.5066
278.7	467.06	205.6874
278.7	467.10	219.3999
278.7	467.14	212.136
278.7	467.22	204.2791
278.7	467.26	208.2817
278.7	467.40	212.2101
278.7	467.50	204.4274
278.7	467.60	208.4299
278.7	467.70	202.5743
278.7	467.81	208.7264
278.7	467.91	201.166
278.7	469.28	203.3897

278.7	469.38	200.2766
278.7	469.48	201.9814
278.7	469.58	200.2024
278.7	469.68	198.3494
278.7	469.78	201.166
278.7	469.88	199.4612
275.7	466.81	245.639
275.7	466.83	241.1917
275.7	466.87	234.1501
275.7	466.91	228.2945
275.7	466.95	225.4038
275.7	466.99	227.4792
275.7	467.03	223.1801
275.7	467.07	218.4364
275.7	467.11	220.2894
275.7	467.15	217.5469
275.7	467.19	213.5443
275.7	467.23	213.1737
275.7	467.33	212.8772
275.7	467.43	213.8408
275.7	467.53	211.543
275.7	467.63	210.6536
275.7	469.17	208.2817
275.7	469.27	210.5053
275.7	469.38	204.5756
275.7	469.48	207.9111
275.7	469.58	205.5392
275.7	469.68	206.3545
275.7	469.78	203.4638
275.7	469.88	204.2791
261.2	466.85	264.2435
261.2	466.86	253.57
261.2	466.90	240.3763
261.2	466.94	230.9629
261.2	466.98	232.5195
261.2	467.02	226.738
261.2	467.06	225.7003
261.2	467.16	221.1789
261.2	467.26	219.1776
261.2	467.76	212.6549
261.2	467.87	211.0242
261.2	467.97	213.9891
261.2	468.07	211.6913
261.2	468.17	208.1335

261.2	468.27	211.2466
261.2	468.37	207.7628
261.2	479.63	195.2363
261.2	479.73	190.1219
261.2	479.83	194.1245
261.2	479.93	192.4938
261.2	480.03	190.196
261.2	480.13	194.1245
261.2	480.23	193.0126
261.2	480.33	191.9749
261.2	480.43	193.5315
260.7	466.83	248.6038
260.7	466.88	237.0409
260.7	466.92	222.513
260.7	466.96	219.5482
260.7	466.99	218.214
260.7	467.04	213.0255
260.7	467.08	213.9891
260.7	467.18	218.4364
260.7	467.28	219.5482
260.7	467.38	214.5079
260.7	467.48	210.5795
260.7	467.58	213.9891
260.7	467.69	207.9111
260.7	467.79	207.6887
260.7	467.89	209.1712
260.7	467.99	206.3545
260.7	468.08	206.5028
260.7	468.19	202.7226
260.7	468.29	205.5392
260.7	468.39	201.9072
260.7	468.49	204.9462
260.7	468.59	202.2037
260.7	468.69	203.9826
255.0	466.82	234.9655
255.0	466.90	231.2594
255.0	466.94	223.8472
255.0	466.98	217.9175
255.0	467.02	219.3999
255.0	467.12	216.4351
255.0	467.22	218.7328
255.0	467.54	208.8747
255.0	467.64	209.1712
255.0	467.74	205.1686

255.0	467.84	205.8357
255.0	467.94	208.3558
255.0	468.04	203.9085
255.0	468.14	205.391
255.0	468.24	202.7967
233.7	466.66	208.5041
233.7	466.67	203.9826
233.7	466.78	200.0542
233.7	466.88	201.4625
233.7	466.98	194.5692
233.7	467.08	191.8267
233.7	467.18	194.0503
233.7	467.28	190.3443
233.7	467.68	184.7851
233.7	467.79	190.0478
233.7	467.88	187.3794
233.7	467.99	189.6772
233.7	468.09	186.3417
233.7	468.19	190.9372
233.7	468.29	188.1206
212.6	466.12	190.1219
212.6	466.16	187.0088
212.6	466.20	188.4171
212.6	466.24	184.1922
212.6	466.28	181.4497
212.6	466.38	183.2286
212.6	466.49	181.1532
212.6	466.53	184.2663
212.6	466.63	179.5966
212.6	466.69	175.1493
212.6	466.79	177.373
212.6	466.89	173.5187
212.6	466.99	176.7059
212.6	467.09	179.5966
212.6	467.19	173.8152
212.6	468.78	173.5928
212.6	468.88	170.5538
212.6	468.98	173.0739
212.6	469.08	170.2573
212.6	469.18	174.1116
212.6	469.28	172.1845
212.6	469.38	171.1468
212.6	469.48	173.6669

Viscosity, Pa*s

Temperature, K - Liquid	Pressure, kPa - Liquid	Viscosity, Pa*s - Liquid
243.15	100.00	0.0004120
243.15	4360.00	0.0004270
243.15	9400.00	0.0004450
243.15	14450.00	0.0004630
243.15	19460.00	0.0004810
253.15	100.00	0.0003630
253.15	4440.00	0.0003770
253.15	9400.00	0.0003920
253.15	14460.00	0.0004080
253.15	19510.00	0.0004240
263.15	100.00	0.0003230
263.15	4390.00	0.0003350
263.15	9440.00	0.0003500
263.15	14430.00	0.0003640
263.15	19430.00	0.0003780
273.15	100.00	0.0002880
273.15	4380.00	0.0003000
273.15	9430.00	0.0003130
273.15	14470.00	0.0003260
273.15	19480.00	0.0003390
283.15	100.00	0.0002600
283.15	4390.00	0.0002700
283.15	9420.00	0.0002830
283.15	14500.00	0.0002940
283.15	19540.00	0.0003070
293.15	100.00	0.0002350
293.15	4380.00	0.0002450
293.15	9420.00	0.0002560
293.15	14480.00	0.0002680
293.15	19490.00	0.0002800
303.15	220.00	0.0002140
303.15	4380.00	0.0002230
303.15	9420.00	0.0002340
303.15	14500.00	0.0002450
303.15	19560.00	0.0002560

313.15	410.00	0.0001950
313.15	4360.00	0.0002030
313.15	9430.00	0.0002140
313.15	14520.00	0.0002250
313.15	19610.00	0.0002350
323.15	350.00	0.0001790
323.15	4380.00	0.0001870
323.15	9430.00	0.0001970
323.15	14490.00	0.0002090
323.15	19510.00	0.0002170
333.15	410.00	0.0001630
333.15	4390.00	0.0001720
333.15	9430.00	0.0001820
333.15	14470.00	0.0001920
333.15	19470.00	0.0002010
343.15	340.00	0.0001500
343.15	4390.00	0.0001580
343.15	9420.00	0.0001670
343.15	14460.00	0.0001780
343.15	19470.00	0.0001870
353.15	410.00	0.0001370
353.15	4380.00	0.0001460
353.15	9410.00	0.0001550
353.15	14440.00	0.0001650
353.15	19400.00	0.0001740
363.15	510.00	0.0001260
363.15	4380.00	0.0001340
363.15	9390.00	0.0001440
363.15	14400.00	0.0001530
363.15	19350.00	0.0001620
373.15	650.00	0.0001160
373.15	4380.00	0.0001240
373.15	9380.00	0.0001340
373.15	14400.00	0.0001430
373.15	19460.00	0.0001510

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Legend

af:	Acentric Factor
affp:	Proton affinity
aigt:	Autoignition Temperature
basg:	Gas basicity
chg:	Standard gas enthalpy of combustion
chl:	Standard liquid enthalpy of combustion
cpg:	Ideal gas heat capacity
cpl:	Liquid phase heat capacity
dm:	Dipole Moment
dvisc:	Dynamic viscosity
fl:	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
hf:	Enthalpy of formation at standard conditions
hfl:	Liquid phase enthalpy of formation at standard conditions

hfus:	Enthalpy of fusion at standard conditions
hfust:	Enthalpy of fusion at a given temperature
hvap:	Enthalpy of vaporization at standard conditions
hvapt:	Enthalpy of vaporization at a given temperature
ie:	Ionization energy
log10ws:	Log10 of Water solubility in mol/l
logp:	Octanol/Water partition coefficient
mcvol:	McGowan's characteristic volume
nfpaf:	NFPA Fire Rating
nfpah:	NFPA Health Rating
pc:	Critical Pressure
pvap:	Vapor pressure
rfi:	Refractive Index
rhol:	Liquid Density
rinpol:	Non-polar retention indices
ripol:	Polar retention indices
sfust:	Entropy of fusion at a given temperature
sg:	Molar entropy at standard conditions
sl:	Liquid phase molar entropy at standard conditions
srf:	Surface Tension
svapt:	Entropy of vaporization at a given temperature
tb:	Normal Boiling Point Temperature
tbp:	Boiling point at given pressure
tc:	Critical Temperature
tcondl:	Liquid thermal conductivity
tf:	Normal melting (fusion) point
tt:	Triple Point Temperature
vc:	Critical Volume
zc:	Critical Compressibility
zra:	Rackett Parameter

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