

# tri(2-Ethylhexyl) trimellitate

**Other names:**

1,2,4-Benzenetricarboxylic acid, 1,2,4-tris(2-ethylhexyl) ester  
1,2,4-Benzenetricarboxylic acid, tris(2-ethylhexyl) ester  
Hatcol 200  
Kodaflex TOTM  
Morflex 510  
PX-338  
Palatinol TOTM  
Plasthall TOTM  
Staflex TOTM  
TOTM  
Tricotyl trimellitate  
Trimellitate tris(2-ethylhexyl) ester  
Trimex T 08  
Trioctyl trimellitate  
Tris(2-ethylhexyl) ester 1,2,4-benzenetricarboxylic acid  
Tris-2-ethylhexyl trimellitate  
tris(2-ethylhexyl) benzene-1,2,4-tricarboxylate  
tris(2-ethylhexyl) trimellitate

**Inchi:**

InChI=1S/C33H54O6/c1-7-13-16-25(10-4)22-37-31(34)28-19-20-29(32(35)38-23-26(11-5

**InchiKey:**

KRADHMIOFJQKEZ-UHFFFAOYSA-N

**Formula:**

C33H54O6

**SMILES:**

CCCCC(CC)COC(=O)c1ccc(C(=O)OCC(CC)CCCC)c(C(=O)OCC(CC)CCCC)c1

**Mol. weight [g/mol]:**

546.78

**CAS:**

3319-31-1

## Physical Properties

Property code	Value	Unit	Source
gf	-388.95	kJ/mol	Joback Method
hf	-1261.10	kJ/mol	Joback Method
hfus	72.28	kJ/mol	Joback Method
hvap	118.96	kJ/mol	Joback Method
log10ws	-10.26		Crippen Method
logp	8.806		Crippen Method
mcvol	474.390	ml/mol	McGowan Method
pc	649.78	kPa	Joback Method
tb	1218.63	K	Joback Method
tc	1544.49	K	Joback Method

tf	684.61	K	Joback Method
vc	1.829	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	1738.25	J/mol×K	1544.49	Joback Method
cpg	1729.06	J/mol×K	1272.94	Joback Method
cpg	1738.08	J/mol×K	1327.25	Joback Method
cpg	1743.35	J/mol×K	1381.56	Joback Method
cpg	1745.03	J/mol×K	1435.87	Joback Method
cpg	1743.28	J/mol×K	1490.18	Joback Method
cpg	1716.13	J/mol×K	1218.63	Joback Method
dvisc	0.0000717	Paxs	684.61	Joback Method
dvisc	0.0000333	Paxs	773.61	Joback Method
dvisc	0.0000181	Paxs	862.62	Joback Method
dvisc	0.0000110	Paxs	951.62	Joback Method
dvisc	0.0000073	Paxs	1040.62	Joback Method
dvisc	0.0000052	Paxs	1129.63	Joback Method
dvisc	0.0000039	Paxs	1218.63	Joback Method
hvapt	81.10	kJ/mol	351.00	NIST Webbook
rho1	949.20	kg/m <sup>3</sup>	348.15	High pressure viscosity behaviour of tris(2-ethylhexyl) trimellitate up to 150 MPa
rho1	945.60	kg/m <sup>3</sup>	353.15	High pressure viscosity behaviour of tris(2-ethylhexyl) trimellitate up to 150 MPa
rho1	952.80	kg/m <sup>3</sup>	343.15	High pressure viscosity behaviour of tris(2-ethylhexyl) trimellitate up to 150 MPa
rho1	938.30	kg/m <sup>3</sup>	363.15	High pressure viscosity behaviour of tris(2-ethylhexyl) trimellitate up to 150 MPa

rho1	934.70	kg/m3	368.15	High pressure viscosity behaviour of tris(2-ethylhexyl) trimellitate up to 150 MPa
rho1	931.20	kg/m3	373.15	High pressure viscosity behaviour of tris(2-ethylhexyl) trimellitate up to 150 MPa
rho1	956.40	kg/m3	338.15	High pressure viscosity behaviour of tris(2-ethylhexyl) trimellitate up to 150 MPa
rho1	960.00	kg/m3	333.15	High pressure viscosity behaviour of tris(2-ethylhexyl) trimellitate up to 150 MPa
rho1	963.50	kg/m3	328.15	High pressure viscosity behaviour of tris(2-ethylhexyl) trimellitate up to 150 MPa
rho1	967.10	kg/m3	323.15	High pressure viscosity behaviour of tris(2-ethylhexyl) trimellitate up to 150 MPa
rho1	970.70	kg/m3	318.15	High pressure viscosity behaviour of tris(2-ethylhexyl) trimellitate up to 150 MPa
rho1	974.20	kg/m3	313.15	High pressure viscosity behaviour of tris(2-ethylhexyl) trimellitate up to 150 MPa
rho1	977.70	kg/m3	308.15	High pressure viscosity behaviour of tris(2-ethylhexyl) trimellitate up to 150 MPa
rho1	981.20	kg/m3	303.15	High pressure viscosity behaviour of tris(2-ethylhexyl) trimellitate up to 150 MPa

rho	984.80	kg/m <sup>3</sup>	298.15	High pressure viscosity behaviour of tris(2-ethylhexyl) trimellitate up to 150 MPa
rho	988.40	kg/m <sup>3</sup>	293.15	High pressure viscosity behaviour of tris(2-ethylhexyl) trimellitate up to 150 MPa
rho	991.90	kg/m <sup>3</sup>	288.15	High pressure viscosity behaviour of tris(2-ethylhexyl) trimellitate up to 150 MPa
rho	995.60	kg/m <sup>3</sup>	283.15	High pressure viscosity behaviour of tris(2-ethylhexyl) trimellitate up to 150 MPa
rho	998.90	kg/m <sup>3</sup>	278.15	High pressure viscosity behaviour of tris(2-ethylhexyl) trimellitate up to 150 MPa
rho	941.90	kg/m <sup>3</sup>	358.15	High pressure viscosity behaviour of tris(2-ethylhexyl) trimellitate up to 150 MPa

## Datasets

### Viscosity, Pa\*s

Temperature, K - Liquid	Pressure, kPa - Liquid	Viscosity, Pa*s - Liquid
303.15	1080.00	0.1589000
303.15	1030.00	0.1584000
303.15	980.00	0.1585000
303.16	2820.00	0.1650000
303.16	2850.00	0.1651000
303.16	2850.00	0.1657000
303.16	5130.00	0.1738000

303.16	5130.00	0.1736000
303.16	5130.00	0.1738000
303.16	5120.00	0.1743000
303.16	5130.00	0.1734000
303.16	7680.00	0.1833000
303.16	7680.00	0.1839000
303.16	7690.00	0.1838000
303.16	7680.00	0.1838000
303.16	7680.00	0.1836000
303.16	9880.00	0.1941000
303.16	9850.00	0.1939000
303.16	9830.00	0.1939000
303.15	15060.00	0.2206000
303.15	15060.00	0.2202000
303.16	20010.00	0.2438000
303.16	19990.00	0.2428000
303.16	19980.00	0.2428000
303.16	19950.00	0.2426000
303.15	29820.00	0.3031000
303.15	29810.00	0.3024000
303.16	29820.00	0.3035000
303.15	29810.00	0.3021000
303.16	29820.00	0.3038000
303.16	29830.00	0.3023000
303.16	40170.00	0.3705000
303.16	40170.00	0.3731000
303.16	40180.00	0.3732000
303.16	40180.00	0.3695000
303.16	40160.00	0.3698000
303.16	40170.00	0.3709000
303.17	50400.00	0.4638000
303.17	50400.00	0.4620000
303.17	50400.00	0.4600000
303.17	50390.00	0.4622000
303.17	50400.00	0.4621000
313.16	1230.00	0.0879800
313.16	1220.00	0.0877800
313.16	1320.00	0.0876200
313.16	1310.00	0.0880200
313.16	1320.00	0.0875500
313.17	2780.00	0.0905900
313.17	2800.00	0.0903000
313.17	2790.00	0.0902900
313.17	2780.00	0.0906000

313.17	2790.00	0.0905400
313.16	2780.00	0.0905200
313.16	5190.00	0.0962600
313.16	5210.00	0.0957900
313.16	5170.00	0.0962400
313.17	5170.00	0.0959000
313.16	5160.00	0.0961400
313.16	7790.00	0.1013000
313.16	7710.00	0.1016000
313.16	7780.00	0.1017000
313.16	7780.00	0.1019000
313.16	7780.00	0.1014000
313.16	14820.00	0.1174000
313.16	14800.00	0.1176000
313.17	14770.00	0.1170000
313.17	20060.00	0.1320000
313.16	20040.00	0.1324000
313.16	20060.00	0.1316000
313.16	20050.00	0.1316000
313.16	29970.00	0.1602000
313.16	29930.00	0.1598000
373.17	7500.00	0.0100300
313.17	29940.00	0.1595000
313.16	29980.00	0.1598000
313.16	29970.00	0.1602000
313.16	29930.00	0.1598000
313.17	29940.00	0.1595000
313.16	29980.00	0.1598000
313.16	39980.00	0.1970000
313.16	40020.00	0.1966000
313.16	40000.00	0.1969000
313.16	39960.00	0.1974000
313.16	50090.00	0.2393000
313.16	50080.00	0.2396000
313.16	50070.00	0.2395000
313.16	50040.00	0.2403000
313.16	50040.00	0.2394000
313.16	50020.00	0.2391000
313.16	65470.00	0.3175000
313.16	65440.00	0.3198000
313.16	65470.00	0.3175000
313.16	65430.00	0.3190000
313.16	65420.00	0.3178000
328.16	1000.00	0.0416600

328.16	1030.00	0.0416100
328.16	1030.00	0.0418200
328.16	1050.00	0.0417600
328.15	2520.00	0.0432900
328.16	2520.00	0.0432300
328.15	2490.00	0.0431800
328.16	2530.00	0.0433100
328.16	2510.00	0.0432000
328.16	5130.00	0.0457300
328.16	5100.00	0.0457300
328.16	5140.00	0.0456700
328.15	5120.00	0.0458100
328.16	5100.00	0.0456900
328.16	5130.00	0.0457200
328.15	7540.00	0.0475900
328.15	7550.00	0.0476800
328.15	7560.00	0.0476600
328.16	7580.00	0.0477600
328.15	10430.00	0.0508100
328.15	10410.00	0.0509100
328.16	10410.00	0.0507400
328.16	10400.00	0.0508400
328.16	10390.00	0.0507800
328.16	10400.00	0.0508200
328.15	15140.00	0.0556600
328.16	15130.00	0.0556200
328.16	15110.00	0.0555200
328.16	15100.00	0.0557100
328.16	15100.00	0.0557100
328.15	20020.00	0.0607500
328.15	20040.00	0.0607500
328.15	20040.00	0.0608700
328.16	20020.00	0.0608300
328.16	20030.00	0.0609300
328.16	30420.00	0.0744000
328.15	30410.00	0.0746500
328.15	30400.00	0.0744400
328.15	30420.00	0.0745200
328.15	50080.00	0.1058000
328.15	50070.00	0.1059000
328.15	50050.00	0.1057000
328.15	50040.00	0.1055000
328.15	50040.00	0.1057000
328.16	50040.00	0.1055000

328.15	50030.00	0.1058000
328.15	50030.00	0.1055000
328.15	50030.00	0.1059000
328.16	65490.00	0.1396000
328.15	65530.00	0.1396000
328.16	40570.00	0.0891500
373.18	20290.00	0.0123000
328.16	40590.00	0.0891000
328.15	40610.00	0.0894700
328.16	40620.00	0.0892500
343.15	1040.00	0.0228100
343.15	1050.00	0.0227400
343.15	1090.00	0.0228100
343.15	1060.00	0.0227800
343.15	1070.00	0.0227400
343.14	1080.00	0.0227500
343.15	2540.00	0.0234800
343.15	2580.00	0.0234200
343.15	2540.00	0.0234800
343.15	2540.00	0.0234000
343.15	4800.00	0.0244900
343.15	4900.00	0.0244400
343.15	4900.00	0.0245200
343.15	4900.00	0.0244300
343.15	4880.00	0.0244400
343.15	4820.00	0.0245100
343.15	7530.00	0.0258200
343.15	7590.00	0.0257600
343.15	7630.00	0.0257800
343.15	7650.00	0.0257700
343.14	10140.00	0.0271000
343.15	10140.00	0.0270800
343.14	10150.00	0.0271100
343.14	10150.00	0.0270700
343.14	10150.00	0.0271100
343.15	15090.00	0.0297400
343.15	15070.00	0.0297300
343.15	15060.00	0.0297400
343.15	15050.00	0.0296400
343.15	15040.00	0.0296500
343.15	15040.00	0.0296300
343.14	19930.00	0.0324100
343.14	19920.00	0.0323800
343.14	19910.00	0.0324500



343.14	19900.00	0.0323500
343.14	19890.00	0.0324100
343.14	19900.00	0.0324300
343.14	30250.00	0.0386700
343.14	30260.00	0.0385900
343.14	30250.00	0.0386300
343.14	30240.00	0.0385900
343.14	30250.00	0.0386000
343.14	40280.00	0.0459100
343.14	40270.00	0.0458900
343.14	40270.00	0.0458300
343.14	40260.00	0.0459400
343.14	40260.00	0.0459400
343.14	49870.00	0.0538200
343.14	49870.00	0.0537900
343.14	49840.00	0.0537200
343.14	49860.00	0.0537900
343.14	49840.00	0.0538200
343.14	65100.00	0.0683800
343.14	65080.00	0.0683700
343.14	65070.00	0.0682200
343.14	65060.00	0.0682500
343.14	65050.00	0.0684600
343.14	50340.00	0.0537400
343.14	50360.00	0.0538100
343.14	50360.00	0.0539500
343.14	50360.00	0.0539100
343.14	50350.00	0.0538800
358.19	1290.00	0.0137900
358.19	1330.00	0.0137900
358.19	1380.00	0.0138500
358.18	2530.00	0.0141400
358.18	2460.00	0.0141500
373.18	50280.00	0.0191800
358.18	2500.00	0.0141600
358.18	2490.00	0.0141100
358.18	2480.00	0.0141100
358.18	2470.00	0.0141300
358.18	4920.00	0.0146900
358.18	4860.00	0.0146800
358.18	4960.00	0.0146400
358.18	4840.00	0.0146500
358.18	4990.00	0.0146400
358.18	7420.00	0.0153700

358.18	7420.00	0.0153800
358.18	7410.00	0.0153400
358.18	7360.00	0.0153500
358.18	7370.00	0.0153700
358.18	7390.00	0.0153500
358.18	10350.00	0.0161100
358.18	10380.00	0.0161200
358.18	10410.00	0.0161100
358.19	10470.00	0.0161300
358.18	15320.00	0.0175200
358.19	15340.00	0.0175100
358.19	15360.00	0.0175100
358.19	15370.00	0.0175200
358.19	15390.00	0.0175300
358.19	15410.00	0.0175400
358.18	20130.00	0.0190500
358.18	20120.00	0.0189900
358.18	20070.00	0.0190300
358.18	20090.00	0.0189900
358.18	20050.00	0.0189900
358.18	20070.00	0.0189700
358.19	30310.00	0.0224200
358.19	30380.00	0.0224300
358.19	30360.00	0.0224000
358.19	30380.00	0.0224700
358.19	30380.00	0.0224600
358.18	40290.00	0.0262400
358.18	40280.00	0.0262100
358.18	40260.00	0.0262400
358.18	40250.00	0.0262700
358.18	40240.00	0.0262500
358.19	50360.00	0.0306200
358.19	50420.00	0.0306500
358.19	50380.00	0.0306300
358.19	50390.00	0.0306100
358.19	50400.00	0.0306500
358.19	65540.00	0.0382600
358.19	65550.00	0.0382300
358.19	65570.00	0.0382800
358.19	65600.00	0.0382300
358.19	65610.00	0.0382300
373.17	1080.00	0.0089900
373.17	1070.00	0.0089880
373.17	1070.00	0.0089810

373.17	1070.00	0.0089840
373.17	1070.00	0.0089810
373.18	2500.00	0.0092450
373.18	2470.00	0.0092340
373.18	2460.00	0.0092090
373.18	2470.00	0.0092340
373.18	2460.00	0.0092240
373.18	2460.00	0.0092130
373.17	2690.00	0.0092270
373.18	2710.00	0.0092520
373.17	2720.00	0.0092420
373.17	2730.00	0.0092410
373.17	5140.00	0.0096530
373.17	5130.00	0.0096690
373.17	5120.00	0.0096510
373.17	5110.00	0.0096490
373.17	5110.00	0.0096540
373.17	5100.00	0.0096510
373.17	7480.00	0.0100300
373.17	7480.00	0.0100300
373.17	7470.00	0.0100500
373.17	7440.00	0.0100600
373.17	10450.00	0.0105700
373.18	10460.00	0.0105600
373.17	10430.00	0.0105300
373.18	10440.00	0.0105700
373.18	10450.00	0.0105200
373.17	15160.00	0.0112900
373.17	15180.00	0.0112800
373.17	15210.00	0.0113200
373.17	15210.00	0.0113200
373.17	15210.00	0.0113300
373.17	15210.00	0.0112700
373.18	20320.00	0.0122800
373.18	20250.00	0.0122700
373.18	20270.00	0.0122900
373.18	20260.00	0.0122700
373.18	20250.00	0.0122600
373.18	30030.00	0.0142800
373.18	30030.00	0.0142800
373.18	29980.00	0.0143100
373.18	30010.00	0.0143000
373.18	30000.00	0.0142700
373.18	29990.00	0.0143200

373.18	40190.00	0.0166400
373.18	40170.00	0.0166100
373.18	40140.00	0.0165700
373.18	40150.00	0.0166300
373.18	40130.00	0.0165800
373.18	50320.00	0.0192300
373.18	50310.00	0.0191700
373.18	50290.00	0.0192100
373.18	50290.00	0.0192300
373.18	65370.00	0.0236800
373.18	65350.00	0.0237200
373.18	65330.00	0.0237000
373.17	65290.00	0.0237100

Reference

<https://www.doi.org/10.1016/j.fluid.2014.10.002>

Temperature, K	Pressure, kPa	Viscosity, Pa*s
315.10	8710.00	0.0926400
315.10	23090.00	0.1250000
315.10	36550.00	0.1635000
315.10	69620.00	0.3013000
315.10	71420.00	0.3108000
315.10	104200.00	0.5406000
315.10	138800.00	0.9340000
347.10	9180.00	0.0227200
347.10	22490.00	0.0288800
347.10	36420.00	0.0365400
347.10	70160.00	0.0624300
347.10	70370.00	0.0623200
347.10	104100.00	0.1011000
347.10	138500.00	0.1591000
347.10	173500.00	0.2449000
347.10	219900.00	0.4208000
387.50	11780.00	0.0072620
387.50	22080.00	0.0085420
387.50	36110.00	0.0104800
387.50	70650.00	0.0166000
387.50	72750.00	0.0172100
387.50	104700.00	0.0253200
387.50	140100.00	0.0370400
387.50	173400.00	0.0516800
387.50	215400.00	0.0772700
428.60	9400.00	0.0031430

428.60	21670.00	0.0036320
428.60	36940.00	0.0044600
428.60	70470.00	0.0066430
428.60	105400.00	0.0097000
428.60	139500.00	0.0132000
428.60	172300.00	0.0176300
428.60	203200.00	0.0225100
428.60	237600.00	0.0297400
477.80	11620.00	0.0016490
477.80	23680.00	0.0019160
477.80	37690.00	0.0022320
477.80	37760.00	0.0022350
477.80	70980.00	0.0032270
477.80	105500.00	0.0043360
477.80	106000.00	0.0043360
477.80	139300.00	0.0057430
477.80	174200.00	0.0073520
477.80	196800.00	0.0085360
477.80	219300.00	0.0100200
477.80	240800.00	0.0116200
527.40	10410.00	0.0010150
527.40	23110.00	0.0011610
527.40	36430.00	0.0013330
527.40	69910.00	0.0017900
527.40	105200.00	0.0024660
527.40	105700.00	0.0024690
527.40	139000.00	0.0030970
527.40	172900.00	0.0038350
527.40	200700.00	0.0045780
527.40	201600.00	0.0046010
527.40	223700.00	0.0052240
527.40	241600.00	0.0057610

Reference

<https://www.doi.org/10.1021/acs.jced.6b00128>

## Mass density, kg/m<sup>3</sup>

Temperature, K - Liquid	Pressure, kPa - Liquid	Mass density, kg/m <sup>3</sup> - Liquid
293.15	100.00	988.2
293.15	2510.00	989.6
293.15	2510.00	989.6

293.15	5000.00	991.0
293.15	7510.00	992.4
293.15	10010.00	993.8
293.15	15010.00	996.6
293.15	19990.00	999.2
293.15	30010.00	1004.3
293.15	40020.00	1009.2
293.15	50030.00	1013.8
293.15	68010.00	1021.5
313.15	100.00	973.4
313.15	2510.00	974.9
313.15	5020.00	976.4
313.15	10010.00	979.4
313.15	20000.00	985.3
313.15	40020.00	996.0
313.15	68000.00	1009.3
313.15	100.00	973.4
313.15	2500.00	974.9
313.15	2500.00	974.9
313.15	5020.00	976.5
313.15	7490.00	977.9
313.15	10010.00	979.5
313.15	15010.00	982.4
313.15	20000.00	985.3
313.15	30030.00	990.8
313.15	40000.00	996.0
313.15	50000.00	1001.0
313.15	68000.00	1009.3
333.15	100.00	958.9
333.15	2500.00	960.4
333.15	2500.00	960.5
333.15	5000.00	962.1
333.15	7510.00	963.8
333.15	10010.00	965.4
333.15	15010.00	968.6
333.15	20000.00	971.6
333.15	30010.00	977.6
333.15	39990.00	983.1
333.15	50000.00	988.4
333.15	67990.00	997.2
353.15	100.00	944.5
353.15	2490.00	946.2
353.15	2490.00	946.2
353.15	5020.00	948.1

353.15	7510.00	949.8
353.15	10020.00	951.6
353.15	14990.00	955.0
353.15	20010.00	958.3
353.15	30000.00	964.7
353.15	40020.00	970.6
353.15	49990.00	976.2
353.15	68000.00	985.5
373.15	100.00	930.1
373.15	2510.00	932.0
373.15	2510.00	932.0
373.15	5020.00	934.0
373.15	7500.00	935.9
373.15	10040.00	937.9
373.15	15000.00	941.6
373.15	20030.00	945.2
373.15	30010.00	952.0
373.15	40020.00	958.3
373.15	49990.00	964.3
373.15	68010.00	974.2

Reference

<https://www.doi.org/10.1016/j.fluid.2014.10.003>

Temperature, K	Pressure, kPa	Mass density, kg/m <sup>3</sup>
313.15	100.00	973.4
313.15	67990.00	1009.4
313.15	40020.00	996.1
313.15	10000.00	979.5
293.15	100.00	988.2
293.15	9990.00	993.8
293.15	39980.00	1009.2
293.15	68000.00	1021.5
353.15	100.00	944.4
353.15	9990.00	951.5
353.15	40020.00	970.7
353.15	68060.00	985.5
373.15	100.00	930.1
373.15	10000.00	937.8
373.15	40040.00	958.4
373.15	67970.00	974.1

Reference

<https://www.doi.org/10.1016/j.fluid.2016.01.012>

Temperature, K	Pressure, kPa	Mass density, kg/m <sup>3</sup>
328.15	5110.00	965.697
328.15	10110.00	968.884
328.15	20120.00	974.939
328.15	30110.00	980.701
333.15	100.00	959.012
333.15	100.00	959.026
333.15	100.00	959.014
333.15	100.00	958.996
353.15	100.00	944.616
353.15	100.00	944.621
353.15	100.00	944.46
353.15	100.00	944.566
363.15	100.00	937.285
363.15	100.00	937.369
363.15	5110.00	941.043
363.15	10110.00	944.715
363.15	20120.00	951.677
363.15	30130.00	958.176
363.15	40130.00	964.291
363.15	50140.00	969.983
373.15	100.00	930.229
373.15	100.00	930.252
383.15	100.00	923.009
383.15	100.00	923.041
383.15	100.00	923.028
393.15	100.00	915.76
393.15	100.00	915.768
403.15	100.00	908.475
403.15	100.00	908.487
403.15	5110.00	912.879
403.15	10110.00	917.229
403.15	20110.00	925.405
403.15	30120.00	932.929
403.15	40120.00	939.962
403.15	50130.00	946.45
403.15	68140.00	957.148
413.15	100.00	901.142
413.15	100.00	901.152
423.15	100.00	893.777
423.15	100.00	893.78
423.15	100.00	893.78
423.15	2590.00	896.162
423.15	5100.00	898.654



423.15	7590.00	901.053
423.15	10100.00	903.407
423.15	20110.00	912.286
423.15	30120.00	920.442
423.15	40120.00	927.911
423.15	50120.00	934.915
423.15	68140.00	946.287

Reference

<https://www.doi.org/10.1021/acs.jced.7b00939>

## Speed of sound, m/s

Pressure, kPa - Liquid	Temperature, K - Liquid	Speed of sound, m/s - Liquid
101.30	293.05	1421.3
10000.00	293.05	1466.0
20000.00	293.05	1507.2
30000.00	293.05	1545.0
40000.00	293.05	1580.3
101.30	303.15	1385.4
10000.00	303.15	1430.5
20000.00	303.15	1473.7
30000.00	303.15	1513.3
40000.00	303.15	1548.7
50000.00	303.15	1583.6
60000.00	303.15	1617.5
70000.00	303.15	1649.8
101.30	313.35	1352.8
10000.00	313.35	1396.8
20000.00	313.35	1441.2
30000.00	313.35	1480.4
40000.00	313.35	1518.6
50000.00	313.35	1553.8
60000.00	313.35	1587.7
70000.00	313.35	1621.3
80000.00	313.35	1651.5
90000.00	313.35	1682.7
100000.00	313.35	1712.8
120000.00	313.35	1769.5
101.30	323.45	1319.3
10000.00	323.45	1365.3
20000.00	323.45	1410.1

30000.00	323.45	1450.4
40000.00	323.45	1488.3
50000.00	323.45	1525.4
60000.00	323.45	1560.4
70000.00	323.45	1593.6
80000.00	323.45	1626.3
90000.00	323.45	1656.1
100000.00	323.45	1685.2
120000.00	323.45	1740.7
140100.00	323.45	1796.0
160100.00	323.45	1846.7
180100.00	323.45	1896.3
101.30	333.55	1286.6
10000.00	333.55	1334.6
20000.00	333.55	1380.2
30000.00	333.55	1421.5
40000.00	333.55	1460.8
50000.00	333.55	1497.8
60000.00	333.55	1533.6
70000.00	333.55	1567.4
80000.00	333.55	1599.7
90000.00	333.55	1631.7
100000.00	333.55	1661.2
120000.00	333.55	1718.9
140100.00	333.55	1773.1
160100.00	333.55	1827.1
180100.00	333.55	1876.8
200100.00	333.55	1918.9
101.30	343.75	1255.2
10000.00	343.75	1304.6
20000.00	343.75	1351.5
30000.00	343.75	1394.3
40000.00	343.75	1435.8
50000.00	343.75	1473.9
60000.00	343.75	1509.7
70000.00	343.75	1543.2
80000.00	343.75	1576.1
90000.00	343.75	1606.9
100000.00	343.75	1637.9
120000.00	343.75	1693.4
140100.00	343.75	1746.9
160100.00	343.75	1800.3
180100.00	343.75	1849.1
200100.00	343.75	1897.6

101.30	353.85	1223.4
10000.00	353.85	1275.3
20000.00	353.85	1323.4
30000.00	353.85	1367.7
40000.00	353.85	1409.0
50000.00	353.85	1447.4
60000.00	353.85	1483.9
70000.00	353.85	1519.4
80000.00	353.85	1553.0
90000.00	353.85	1585.0
100000.00	353.85	1615.2
120000.00	353.85	1674.1
140100.00	353.85	1727.9
160100.00	353.85	1779.5
180100.00	353.85	1831.0
200100.00	353.85	1881.0
101.30	364.15	1193.4
10000.00	364.15	1246.7
20000.00	364.15	1295.6
30000.00	364.15	1341.9
40000.00	364.15	1383.1
50000.00	364.15	1422.8
60000.00	364.15	1460.6
70000.00	364.15	1495.8
80000.00	364.15	1529.5
90000.00	364.15	1562.4
100000.00	364.15	1593.8
120000.00	364.15	1651.8
140100.00	364.15	1706.1
160100.00	364.15	1758.6
180100.00	364.15	1810.3
200100.00	364.15	1856.9
101.30	374.25	1164.3
10000.00	374.25	1218.4
20000.00	374.25	1268.4
30000.00	374.25	1315.7
40000.00	374.25	1357.8
50000.00	374.25	1399.1
60000.00	374.25	1437.8
70000.00	374.25	1473.9
80000.00	374.25	1508.5
90000.00	374.25	1541.0
100000.00	374.25	1572.3
120000.00	374.25	1632.1



**tc:** Critical Temperature  
**tf:** Normal melting (fusion) point  
**vc:** Critical Volume

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