

# Didecyl phthalate

<b>Other names:</b>	1,2-Benzenedicarboxylic acid, didecyl ester 1,2-Benzenedicarboxylic acid, didecyl ester (iso) 1,2-benzenedicarboxylic acid, diisodecyl ester 3-methylnonyl 1,2-benzenedioate Bis(n-decyl)phthalate Decyl phthalate Di-n-decyl phthalate NLA-40 Phthalic acid, didecyl ester Vinicizer 105 Vinythesize 105 didecyl 1,2-benzenedicarboxylate diisodecyl phthalate
<b>Inchi:</b>	InChI=1S/C28H46O4/c1-3-5-7-9-11-13-15-19-23-31-27(29)25-21-17-18-22-26(25)28(30)
<b>InchiKey:</b>	PGIBJVOPXLHHGS-UHFFFAOYSA-N
<b>Formula:</b>	C28H46O4
<b>SMILES:</b>	CCCCCCCCCCOC(=O)c1ccccc1C(=O)OCCCCCC
<b>Mol. weight [g/mol]:</b>	446.66
<b>CAS:</b>	84-77-5

## Physical Properties

Property code	Value	Unit	Source
gf	-180.18	kJ/mol	Joback Method
hf	-885.79	kJ/mol	Joback Method
hfus	67.50	kJ/mol	Joback Method
hvap	99.17	kJ/mol	Joback Method
log10ws	-9.49		Crippen Method
logp	8.282		Crippen Method
mcvol	396.500	ml/mol	McGowan Method
pc	940.00	kPa	Critical Temperatures and Pressures of 12 Phthalates Using the Pulse-Heating Method
rinp0l	3067.00		NIST Webbook
tb	1024.28	K	Joback Method
tc	1259.00	K	Joback Method
tf	588.58	K	Joback Method
vc	1.544	m3/kmol	Joback Method

# Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	1404.30	J/mol×K	1102.52	Joback Method
cpg	1453.73	J/mol×K	1259.00	Joback Method
cpg	1443.70	J/mol×K	1219.88	Joback Method
cpg	1432.16	J/mol×K	1180.76	Joback Method
cpg	1419.05	J/mol×K	1141.64	Joback Method
cpg	1387.84	J/mol×K	1063.40	Joback Method
cpg	1369.60	J/mol×K	1024.28	Joback Method
dvisc	0.0632500	Paxs	303.50	Viscosity Measurements of Diisodecyl Phthalate Using a Vibrating Wire Instrument Operated In Free Decay Mode: Comparison with Results Obtained with the Forced Mode of Operation
dvisc	0.2648800	Paxs	283.03	Viscosity Measurements of Diisodecyl Phthalate Using a Vibrating Wire Instrument Operated In Free Decay Mode: Comparison with Results Obtained with the Forced Mode of Operation
dvisc	0.1763500	Paxs	288.23	Viscosity Measurements of Diisodecyl Phthalate Using a Vibrating Wire Instrument Operated In Free Decay Mode: Comparison with Results Obtained with the Forced Mode of Operation
dvisc	0.0380100	Paxs	313.15	Viscosity of Diisodecyl Phthalate by Surface Light Scattering (SLS)

dvisc	0.0489800	Paxs	308.15	Viscosity of Diisodecyl Phthalate by Surface Light Scattering (SLS)
dvisc	0.0648400	Paxs	303.15	Viscosity of Diisodecyl Phthalate by Surface Light Scattering (SLS)
dvisc	0.0884400	Paxs	298.15	Viscosity of Diisodecyl Phthalate by Surface Light Scattering (SLS)
dvisc	0.1238000	Paxs	293.15	Viscosity of Diisodecyl Phthalate by Surface Light Scattering (SLS)
dvisc	0.1774000	Paxs	288.15	Viscosity of Diisodecyl Phthalate by Surface Light Scattering (SLS)
dvisc	0.1739200	Paxs	288.36	Viscosity Measurements of Diisodecyl Phthalate Using a Vibrating Wire Instrument Operated In Free Decay Mode: Comparison with Results Obtained with the Forced Mode of Operation
dvisc	0.1223400	Paxs	293.23	Viscosity Measurements of Diisodecyl Phthalate Using a Vibrating Wire Instrument Operated In Free Decay Mode: Comparison with Results Obtained with the Forced Mode of Operation
dvisc	0.2656000	Paxs	283.15	Viscosity of Diisodecyl Phthalate by Surface Light Scattering (SLS)

dvisc	0.1165100	Paxs	293.93	Viscosity Measurements of Diisodecyl Phthalate Using a Vibrating Wire Instrument Operated In Free Decay Mode: Comparison with Results Obtained with the Forced Mode of Operation
dvisc	0.0877600	Paxs	298.13	Viscosity Measurements of Diisodecyl Phthalate Using a Vibrating Wire Instrument Operated In Free Decay Mode: Comparison with Results Obtained with the Forced Mode of Operation
dvisc	0.0853000	Paxs	298.58	Viscosity Measurements of Diisodecyl Phthalate Using a Vibrating Wire Instrument Operated In Free Decay Mode: Comparison with Results Obtained with the Forced Mode of Operation
dvisc	0.0645100	Paxs	303.18	Viscosity Measurements of Diisodecyl Phthalate Using a Vibrating Wire Instrument Operated In Free Decay Mode: Comparison with Results Obtained with the Forced Mode of Operation
dvisc	0.4046000	Paxs	278.15	Study of the effects of pressure on the viscosity and density of diisodecyl phthalate

dvisc	0.2612000	Paxs	283.15	Study of the effects of pressure on the viscosity and density of diisodecyl phthalate
dvisc	0.1759000	Paxs	288.15	Study of the effects of pressure on the viscosity and density of diisodecyl phthalate
dvisc	0.1223000	Paxs	293.15	Study of the effects of pressure on the viscosity and density of diisodecyl phthalate
dvisc	0.0875200	Paxs	298.15	Study of the effects of pressure on the viscosity and density of diisodecyl phthalate
dvisc	0.0643100	Paxs	303.15	Study of the effects of pressure on the viscosity and density of diisodecyl phthalate
dvisc	0.0484600	Paxs	308.15	Study of the effects of pressure on the viscosity and density of diisodecyl phthalate
dvisc	0.0373500	Paxs	313.15	Study of the effects of pressure on the viscosity and density of diisodecyl phthalate
dvisc	0.0293800	Paxs	318.15	Study of the effects of pressure on the viscosity and density of diisodecyl phthalate
dvisc	0.0235100	Paxs	323.15	Study of the effects of pressure on the viscosity and density of diisodecyl phthalate

dvisc	0.0191300	Paxs	328.15	Study of the effects of pressure on the viscosity and density of diisodecyl phthalate
dvisc	0.0157900	Paxs	333.15	Study of the effects of pressure on the viscosity and density of diisodecyl phthalate
dvisc	0.0132100	Paxs	338.15	Study of the effects of pressure on the viscosity and density of diisodecyl phthalate
dvisc	0.0111800	Paxs	343.15	Study of the effects of pressure on the viscosity and density of diisodecyl phthalate
dvisc	0.0095610	Paxs	348.15	Study of the effects of pressure on the viscosity and density of diisodecyl phthalate
dvisc	0.0082570	Paxs	353.15	Study of the effects of pressure on the viscosity and density of diisodecyl phthalate
dvisc	0.0097100	Paxs	348.15	Density and Viscosity of Diisodecyl Phthalate C <sub>6</sub> H <sub>4</sub> (COOC <sub>10</sub> H <sub>21</sub> ) <sub>2</sub> , with Nominal Viscosity at T ) 298 K and p ) 0.1 MPa of 87 mPaas, at Temperatures from (298.15 to 423.15) K and Pressures up to 70 MPa

dvisc	0.0063290	Paxs	363.15	Study of the effects of pressure on the viscosity and density of diisodecyl phthalate
dvisc	0.0056020	Paxs	368.15	Study of the effects of pressure on the viscosity and density of diisodecyl phthalate
dvisc	0.0049890	Paxs	373.15	Study of the effects of pressure on the viscosity and density of diisodecyl phthalate
dvisc	0.6276000	Paxs	273.15	Temperature and Pressure Dependence of the Viscosity of Diisodecyl Phthalate at Temperatures between (0 and 100) deg C and at Pressures to 1 GPa
dvisc	0.3935000	Paxs	278.15	Temperature and Pressure Dependence of the Viscosity of Diisodecyl Phthalate at Temperatures between (0 and 100) deg C and at Pressures to 1 GPa
dvisc	0.2552000	Paxs	283.15	Temperature and Pressure Dependence of the Viscosity of Diisodecyl Phthalate at Temperatures between (0 and 100) deg C and at Pressures to 1 GPa

dvisc	0.1709000	Paxs	288.15	Temperature and Pressure Dependence of the Viscosity of Diisodecyl Phthalate at Temperatures between (0 and 100) deg C and at Pressures to 1 GPa
dvisc	0.1226000	Paxs	293.15	Temperature and Pressure Dependence of the Viscosity of Diisodecyl Phthalate at Temperatures between (0 and 100) deg C and at Pressures to 1 GPa
dvisc	0.0877000	Paxs	298.15	Temperature and Pressure Dependence of the Viscosity of Diisodecyl Phthalate at Temperatures between (0 and 100) deg C and at Pressures to 1 GPa
dvisc	0.0841000	Paxs	298.15	Temperature and Pressure Dependence of the Viscosity of Diisodecyl Phthalate at Temperatures between (0 and 100) deg C and at Pressures to 1 GPa
dvisc	0.0646000	Paxs	303.15	Temperature and Pressure Dependence of the Viscosity of Diisodecyl Phthalate at Temperatures between (0 and 100) deg C and at Pressures to 1 GPa

dvisc	0.0638000	Paxs	303.15	Temperature and Pressure Dependence of the Viscosity of Diisodecyl Phthalate at Temperatures between (0 and 100) deg C and at Pressures to 1 GPa
dvisc	0.0489000	Paxs	308.15	Temperature and Pressure Dependence of the Viscosity of Diisodecyl Phthalate at Temperatures between (0 and 100) deg C and at Pressures to 1 GPa
dvisc	0.0476000	Paxs	308.15	Temperature and Pressure Dependence of the Viscosity of Diisodecyl Phthalate at Temperatures between (0 and 100) deg C and at Pressures to 1 GPa
dvisc	0.0366000	Paxs	313.15	Temperature and Pressure Dependence of the Viscosity of Diisodecyl Phthalate at Temperatures between (0 and 100) deg C and at Pressures to 1 GPa
dvisc	0.0230000	Paxs	323.15	Temperature and Pressure Dependence of the Viscosity of Diisodecyl Phthalate at Temperatures between (0 and 100) deg C and at Pressures to 1 GPa

dvisc	0.0155000	Paxs	333.15	Temperature and Pressure Dependence of the Viscosity of Diisodecyl Phthalate at Temperatures between (0 and 100) deg C and at Pressures to 1 GPa
dvisc	0.0110000	Paxs	343.15	Temperature and Pressure Dependence of the Viscosity of Diisodecyl Phthalate at Temperatures between (0 and 100) deg C and at Pressures to 1 GPa
dvisc	0.0081200	Paxs	353.15	Temperature and Pressure Dependence of the Viscosity of Diisodecyl Phthalate at Temperatures between (0 and 100) deg C and at Pressures to 1 GPa
dvisc	0.0872000	Paxs	298.15	Density and Viscosity of Diisodecyl Phthalate C6H4(COOC10H21)2, with Nominal Viscosity at T ) 298 K and p ) 0.1 MPa of 87 mPaas, at Temperatures from (298.15 to 423.15) K and Pressures up to 70 MPa
dvisc	0.0238500	Paxs	323.15	Density and Viscosity of Diisodecyl Phthalate C6H4(COOC10H21)2, with Nominal Viscosity at T ) 298 K and p ) 0.1 MPa of 87 mPaas, at Temperatures from (298.15 to 423.15) K and Pressures up to 70 MPa

dvisc	0.0071930	Paxs	358.15	Study of the effects of pressure on the viscosity and density of diisodecyl phthalate
dvisc	0.0063900	Paxs	363.15	Density and Viscosity of Diisodecyl Phthalate <chem>C6H4(COOC10H21)2</chem> , with Nominal Viscosity at T ) 298 K and p ) 0.1 MPa of 87 mPaas, at Temperatures from (298.15 to 423.15) K and Pressures up to 70 MPa
rfi	1.48450		293.15	New Measurements of the Viscosity of Diisodecyl Phthalate Using a Vibrating Wire Technique
rhol	962.83	kg/m3	298.28	Thermodynamic properties and equation of state of liquid di-isodecyl phthalate at temperature between (273 and 423) K and at pressures up to 140 MPa
rhol	895.47	kg/m3	393.31	Thermodynamic properties and equation of state of liquid di-isodecyl phthalate at temperature between (273 and 423) K and at pressures up to 140 MPa
rhol	909.62	kg/m3	373.29	Thermodynamic properties and equation of state of liquid di-isodecyl phthalate at temperature between (273 and 423) K and at pressures up to 140 MPa

rhol	923.76	kg/m3	353.29	Thermodynamic properties and equation of state of liquid di-isodecyl phthalate at temperature between (273 and 423) K and at pressures up to 140 MPa
rhol	937.93	kg/m3	333.28	Thermodynamic properties and equation of state of liquid di-isodecyl phthalate at temperature between (273 and 423) K and at pressures up to 140 MPa
rhol	952.15	kg/m3	313.27	Thermodynamic properties and equation of state of liquid di-isodecyl phthalate at temperature between (273 and 423) K and at pressures up to 140 MPa
rhol	957.83	kg/m3	305.26	Thermodynamic properties and equation of state of liquid di-isodecyl phthalate at temperature between (273 and 423) K and at pressures up to 140 MPa
rhol	881.29	kg/m3	413.33	Thermodynamic properties and equation of state of liquid di-isodecyl phthalate at temperature between (273 and 423) K and at pressures up to 140 MPa

rhol	962.88	kg/m3	298.25	Thermodynamic properties and equation of state of liquid di-isodecyl phthalate at temperature between (273 and 423) K and at pressures up to 140 MPa
rhol	973.75	kg/m3	282.95	Thermodynamic properties and equation of state of liquid di-isodecyl phthalate at temperature between (273 and 423) K and at pressures up to 140 MPa
rhol	979.86	kg/m3	274.35	Thermodynamic properties and equation of state of liquid di-isodecyl phthalate at temperature between (273 and 423) K and at pressures up to 140 MPa
rhol	980.08	kg/m3	274.07	Thermodynamic properties and equation of state of liquid di-isodecyl phthalate at temperature between (273 and 423) K and at pressures up to 140 MPa
rhol	980.07	kg/m3	274.06	Thermodynamic properties and equation of state of liquid di-isodecyl phthalate at temperature between (273 and 423) K and at pressures up to 140 MPa

rh <sub>ol</sub>	980.22	kg/m <sup>3</sup>	273.84	Thermodynamic properties and equation of state of liquid di-isodecyl phthalate at temperature between (273 and 423) K and at pressures up to 140 MPa
rh <sub>ol</sub>	952.21	kg/m <sup>3</sup>	313.27	Thermodynamic properties and equation of state of liquid di-isodecyl phthalate at temperature between (273 and 423) K and at pressures up to 140 MPa

## Datasets

### Viscosity, Pa\*s

Temperature, K - Liquid	Pressure, kPa - Liquid	Viscosity, Pa*s - Liquid
298.15	200.00	0.0875700
298.15	10000.00	0.1120800
298.15	20000.00	0.1434100
298.15	40000.00	0.2309300
298.15	200.00	0.0875800
298.15	10000.00	0.1120800
298.15	20000.00	0.1434200
298.15	40000.00	0.2310100
298.15	200.00	0.0876200
298.15	10000.00	0.1122600
298.15	20000.00	0.1436700
298.15	40000.00	0.2310900
298.15	200.00	0.0876300
298.15	40000.00	0.2313900
298.15	200.00	0.0876300
298.15	40000.00	0.2315500
298.15	200.00	0.0876400
298.15	40000.00	0.2316100

298.15	200.00	0.0877100
298.15	200.00	0.0876100
298.15	200.00	0.0876600
298.15	200.00	0.0877100
305.15	200.00	0.0570400
305.15	200.00	0.0571000
305.15	200.00	0.0571200
305.15	200.00	0.0571300
305.15	200.00	0.0571800
313.15	200.00	0.0373800
313.15	10100.00	0.0463400
313.15	20000.00	0.0572800
313.15	40000.00	0.0871500
313.15	59900.00	0.1304900
313.15	60000.00	0.1303300
313.15	80000.00	0.1940800
313.15	200.00	0.0373800
313.15	10100.00	0.0463300
313.15	20000.00	0.0573500
313.15	40000.00	0.0871300
313.15	59900.00	0.1302900
313.15	80000.00	0.1944100
313.15	200.00	0.0373200
313.15	10100.00	0.0462300
313.15	20000.00	0.0573200
313.15	40000.00	0.0870300
313.15	80000.00	0.1952000
313.15	200.00	0.0370800
313.15	200.00	0.0370600
313.15	200.00	0.0371000
343.15	200.00	0.0112000
343.15	10100.00	0.0133300
343.15	20100.00	0.0158500
343.15	40000.00	0.0220400
343.15	80100.00	0.0412200
343.15	137100.00	0.0955600
343.15	200.00	0.0111900
343.15	10100.00	0.0133300
343.15	20100.00	0.0158600
343.15	40000.00	0.0220500
343.15	80100.00	0.0412400
343.15	137100.00	0.0956100
343.15	200.00	0.0112000
343.15	10100.00	0.0133500

343.15	20100.00	0.0158600
343.15	40000.00	0.0220500
343.15	80100.00	0.0412400
343.15	137100.00	0.0956100
343.15	200.00	0.0109900
343.15	200.00	0.0109700
343.15	200.00	0.0109600
368.15	300.00	0.0056500
368.15	300.00	0.0056500
368.15	300.00	0.0056500
368.15	300.00	0.0056500
373.15	300.00	0.0050400
373.15	20100.00	0.0068760
373.15	40000.00	0.0090550
373.15	80100.00	0.0152200
373.15	137200.00	0.0301100
373.15	300.00	0.0050500
373.15	20100.00	0.0068760
373.15	40000.00	0.0090750
373.15	80100.00	0.0152300
373.15	137200.00	0.0301200
373.15	300.00	0.0050500
373.15	20100.00	0.0068660
373.15	40000.00	0.0090850
373.15	80100.00	0.0152300
373.15	137200.00	0.0301500
373.15	300.00	0.0049200
373.15	300.00	0.0049200
373.15	300.00	0.0049200

Reference

<https://www.doi.org/10.1021/je101256z>

Temperature, K	Pressure, kPa	Viscosity, Pa*s
273.15	100.00	0.6258000
273.15	9900.00	0.8451000
298.15	100.00	0.0873700
298.15	9600.00	0.1107000
298.15	20600.00	0.1450000
298.15	20700.00	0.1455000
298.15	30100.00	0.1825000
298.15	30300.00	0.1830000
298.15	40700.00	0.2342000
298.15	50200.00	0.2894000

298.15	59200.00	0.3562000
298.15	71600.00	0.4654000
298.15	82000.00	0.5890000
298.15	83300.00	0.6084000
298.15	100.00	0.0874100
313.15	100.00	0.0377100
313.15	10900.00	0.0472900
313.15	21200.00	0.0589500
313.15	30600.00	0.0715400
313.15	40900.00	0.0889900
313.15	51600.00	0.1091000
313.15	62400.00	0.1367000
313.15	71300.00	0.1608000
313.15	80300.00	0.1924000
313.15	89800.00	0.2344000
338.15	100.00	0.0131400
338.15	9700.00	0.0155400
338.15	10700.00	0.0162800
338.15	19400.00	0.0186200
338.15	20500.00	0.0193800
338.15	31000.00	0.0232900
338.15	31770.00	0.0230400
338.15	40100.00	0.0272400
338.15	41110.00	0.0269100
338.15	50300.00	0.0324200
338.15	51100.00	0.0318600
338.15	60400.00	0.0383100
338.15	60510.00	0.0373400
338.15	70700.00	0.0452500
338.15	70710.00	0.0436000
338.15	80200.00	0.0525300
338.15	80970.00	0.0517300
338.15	100.00	0.0133700
338.15	100.00	0.0133800
338.15	100.00	0.0133600
348.15	100.00	0.0097100
348.15	9800.00	0.0114700
348.15	20600.00	0.0137100
348.15	30230.00	0.0159600
348.15	31300.00	0.0163400
348.15	40810.00	0.0189100
348.15	50600.00	0.0221500
348.15	50710.00	0.0220500
348.15	61220.00	0.0258900

348.15	69800.00	0.0297700
348.15	72330.00	0.0305500
348.15	85770.00	0.0372300

Reference

<https://www.doi.org/10.1021/je900284z>

## Mass density, kg/m3

Temperature, K - Liquid	Pressure, kPa - Liquid	Mass density, kg/m3 - Liquid
283.15	100.00	974.5
283.15	200.00	974.5
283.15	400.00	974.6
283.15	600.00	974.7
283.15	800.00	974.9
283.15	1010.00	975.0
283.15	2000.00	975.5
283.15	3020.00	976.0
283.15	4000.00	976.6
283.15	5000.00	977.1
283.15	6000.00	977.7
283.15	6980.00	978.2
283.15	8010.00	978.7
283.15	9020.00	979.3
283.15	10030.00	979.8
283.15	15000.00	982.4
283.15	19970.00	985.0
283.15	25030.00	987.3
283.15	29980.00	989.8
283.15	35030.00	992.1
283.15	40000.00	994.5
283.15	45030.00	996.6
283.15	49980.00	998.8
283.15	55030.00	1000.9
283.15	59990.00	1002.6
283.15	64990.00	1005.1
288.15	100.00	970.7
288.15	200.00	970.8
288.15	420.00	970.9
288.15	600.00	971.0
288.15	790.00	971.1
288.15	1000.00	971.2

288.15	1990.00	971.7
288.15	3020.00	972.3
288.15	4010.00	972.9
288.15	5000.00	973.4
288.15	6010.00	974.0
288.15	7020.00	974.5
288.15	7980.00	975.0
288.15	9000.00	975.5
288.15	10000.00	976.1
288.15	14990.00	978.7
288.15	19970.00	981.4
288.15	25000.00	983.8
288.15	30000.00	986.4
288.15	34990.00	988.8
288.15	40020.00	991.1
288.15	45000.00	993.3
288.15	49980.00	995.7
288.15	54980.00	997.7
288.15	60000.00	999.9
288.15	65000.00	1002.0
293.15	100.00	967.0
293.15	200.00	967.1
293.15	400.00	967.2
293.15	630.00	967.3
293.15	790.00	967.4
293.15	1000.00	967.5
293.15	2010.00	968.1
293.15	3020.00	968.7
293.15	4020.00	969.2
293.15	4970.00	969.8
293.15	5980.00	970.3
293.15	7020.00	970.9
293.15	8000.00	971.5
293.15	9020.00	972.0
293.15	10010.00	972.6
293.15	15010.00	975.2
293.15	20000.00	977.9
293.15	25030.00	980.5
293.15	30020.00	983.0
293.15	35030.00	985.4
293.15	40010.00	987.8
293.15	44980.00	990.1
293.15	50020.00	992.4
293.15	55020.00	994.6

293.15	60020.00	996.8
293.15	65000.00	998.9
298.15	100.00	963.4
298.15	200.00	963.4
298.15	410.00	963.6
298.15	620.00	963.7
298.15	820.00	963.8
298.15	1000.00	963.9
298.15	2020.00	964.5
298.15	3040.00	965.0
298.15	4030.00	965.7
298.15	4980.00	966.2
298.15	6070.00	966.8
298.15	7020.00	967.3
298.15	8040.00	967.9
298.15	9040.00	968.5
298.15	10030.00	969.0
298.15	15010.00	971.7
298.15	19990.00	974.4
298.15	25000.00	977.0
298.15	30020.00	979.6
298.15	35000.00	982.1
298.15	40020.00	984.5
298.15	44970.00	986.9
298.15	49990.00	989.2
298.15	54970.00	991.4
298.15	60000.00	993.7
298.15	65020.00	995.8
303.15	100.00	959.7
303.15	200.00	959.8
303.15	400.00	959.9
303.15	580.00	960.0
303.15	800.00	960.2
303.15	1000.00	960.3
303.15	2000.00	960.9
303.15	2990.00	961.4
303.15	4000.00	962.0
303.15	5000.00	962.6
303.15	6000.00	963.2
303.15	7000.00	963.8
303.15	7980.00	964.3
303.15	9000.00	964.9
303.15	10020.00	965.5
303.15	14970.00	968.2

303.15	20010.00	971.0
303.15	25030.00	973.6
303.15	30020.00	976.3
303.15	35000.00	978.8
303.15	40000.00	981.2
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303.15	50010.00	986.0
303.15	54980.00	988.3
303.15	60000.00	990.5
303.15	64990.00	992.7
308.15	100.00	956.2
308.15	200.00	956.2
308.15	410.00	956.4
308.15	610.00	956.5
308.15	800.00	956.6
308.15	1000.00	956.7
308.15	2010.00	957.3
308.15	3020.00	957.9
308.15	4000.00	958.5
308.15	5000.00	959.1
308.15	6000.00	959.7
308.15	7020.00	960.3
308.15	8000.00	960.8
308.15	9020.00	961.4
308.15	10000.00	962.0
308.15	15010.00	964.8
308.15	19990.00	967.6
308.15	25000.00	970.3
308.15	30010.00	973.0
308.15	35000.00	975.5
308.15	39990.00	978.0
308.15	44990.00	980.4
308.15	50010.00	982.9
308.15	55000.00	985.2
308.15	60000.00	987.4
308.15	65000.00	989.7
313.15	100.00	952.6
313.15	200.00	952.6
313.15	400.00	952.8
313.15	620.00	952.9
313.15	800.00	953.0
313.15	1030.00	953.1
313.15	2010.00	953.7
313.15	3000.00	954.3

313.15	4000.00	955.0
313.15	5020.00	955.5
313.15	5990.00	956.2
313.15	7030.00	956.7
313.15	8000.00	957.4
313.15	9020.00	957.9
313.15	10010.00	958.5
313.15	15010.00	961.4
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313.15	40020.00	974.8
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313.15	64970.00	986.6
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323.15	2000.00	946.6
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323.15	8000.00	950.3
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323.15	10020.00	951.6
323.15	15000.00	954.5
323.15	20010.00	957.5
323.15	25030.00	960.3
323.15	30010.00	963.2
323.15	34970.00	965.8
323.15	40000.00	968.5
323.15	45000.00	970.9
323.15	49980.00	973.5
323.15	54980.00	975.8
323.15	60000.00	978.3
323.15	65000.00	980.6

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333.15	200.00	938.4
333.15	400.00	938.5
333.15	630.00	938.7
333.15	800.00	938.8
333.15	1000.00	938.9
333.15	2010.00	939.6
333.15	3000.00	940.2
333.15	4000.00	940.9
333.15	5000.00	941.5
333.15	6000.00	942.2
333.15	7030.00	942.8
333.15	7980.00	943.5
333.15	9010.00	944.1
333.15	10030.00	944.8
333.15	14990.00	947.9
333.15	20000.00	951.0
333.15	25000.00	953.8
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333.15	45020.00	964.8
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333.15	60000.00	972.3
333.15	65000.00	974.7
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343.15	2000.00	932.6
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343.15	5980.00	935.3
343.15	7000.00	936.0
343.15	7990.00	936.6
343.15	9020.00	937.3
343.15	9980.00	937.9
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343.15	29980.00	950.4
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343.15	55000.00	964.0
343.15	60000.00	966.5
343.15	65020.00	968.9
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353.15	800.00	924.8
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353.15	2000.00	925.6
353.15	3000.00	926.3
353.15	3980.00	927.0
353.15	4990.00	927.7
353.15	6000.00	928.4
353.15	7000.00	929.1
353.15	8010.00	929.8
353.15	9000.00	930.5
353.15	10010.00	931.2
353.15	15040.00	934.6
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353.15	29980.00	944.1
353.15	35010.00	947.1
353.15	40000.00	950.0
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353.15	49990.00	955.5
353.15	55000.00	958.1
353.15	60010.00	960.7
353.15	65020.00	963.2
363.15	100.00	917.2
363.15	200.00	917.3
363.15	420.00	917.4
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363.15	4970.00	920.9

363.15	5990.00	921.6
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363.15	19990.00	931.4
363.15	25010.00	934.7
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363.15	34980.00	940.9
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363.15	44980.00	946.8
363.15	49990.00	949.6
363.15	55000.00	952.3
363.15	60040.00	955.0
363.15	64990.00	957.6

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# Legend

<b>cpg:</b>	Ideal gas heat capacity
<b>dvisc:</b>	Dynamic viscosity
<b>gf:</b>	Standard Gibbs free energy of formation
<b>hf:</b>	Enthalpy of formation at standard conditions
<b>hfus:</b>	Enthalpy of fusion at standard conditions
<b>hvap:</b>	Enthalpy of vaporization at standard conditions
<b>log10ws:</b>	Log10 of Water solubility in mol/l
<b>logp:</b>	Octanol/Water partition coefficient
<b>mcvol:</b>	McGowan's characteristic volume
<b>pc:</b>	Critical Pressure
<b>rfi:</b>	Refractive Index
<b>rhol:</b>	Liquid Density
<b>rinpol:</b>	Non-polar retention indices
<b>tb:</b>	Normal Boiling Point Temperature
<b>tc:</b>	Critical Temperature
<b>tf:</b>	Normal melting (fusion) point
<b>vc:</b>	Critical Volume

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