

# Tetraethylene glycol

<b>Other names:</b>	1,11-Dihydroxy-3,6,9-trioxaundecane 1,11-undecanediol, 3,6,9-trioxa- 2,2'-(Oxybis(ethyleneoxy))diethanol 2-(2-[2-(2-Hydroxyethoxy)ethoxy]ethoxy)ethanol 3,6,9-Trioxaundecan-1,11-diol 3,6,9-Trioxaundecane-1,11-diol 3,6,9-trioxa-1,11-undecanediol Ethanol, 2,2'-(oxybis(ethyleneoxy))di- Ethanol, 2,2'-[oxybis(2,1-ethanedioxy)]bis- Hi-Dry NSC 1262 PEG-4 Tetraglycol ethanol, 2,2'-[oxybis(2,1-ethanedioxy)]-
<b>Inchi:</b>	InChI=1S/C8H18O5/c9-1-3-11-5-7-13-8-6-12-4-2-10/h9-10H,1-8H2
<b>InchiKey:</b>	UWHCKJMYHZGTIT-UHFFFAOYSA-N
<b>Formula:</b>	C8H18O5
<b>SMILES:</b>	OCCOCCOCCOCCO
<b>Mol. weight [g/mol]:</b>	194.23
<b>CAS:</b>	112-60-7

## Physical Properties

Property code	Value	Unit	Source
chl	-4738.80 ± 4.60	kJ/mol	NIST Webbook
gf	-572.16	kJ/mol	Joback Method
hf	-909.57	kJ/mol	Joback Method
hfl	-981.70 ± 4.60	kJ/mol	NIST Webbook
hfus	28.22	kJ/mol	Joback Method
hvap	73.99	kJ/mol	Joback Method
log10ws	1.04		Crippen Method
logp	-0.979		Crippen Method
mcvol	152.930	ml/mol	McGowan Method
pc	3200.00 ± 100.00	kPa	NIST Webbook
rinp	1515.40		NIST Webbook
rinp	1515.40		NIST Webbook
rinp	1507.00		NIST Webbook
tb	587.20	K	NIST Webbook

tb	601.20	K	NIST Webbook
tc	762.00 ± 20.00	K	NIST Webbook
tc	800.00 ± 30.00	K	NIST Webbook
tc	814.00	K	Critical temperatures and pressures of ethylene glycols
tf	263.75 ± 0.70	K	NIST Webbook
tf	269.05	K	NIST Webbook
vc	0.576	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	457.15	J/mol×K	740.27	Joback Method
cpg	418.43	J/mol×K	634.06	Joback Method
cpg	474.22	J/mol×K	793.37	Joback Method
cpg	448.03	J/mol×K	713.72	Joback Method
cpg	438.54	J/mol×K	687.16	Joback Method
cpg	428.67	J/mol×K	660.61	Joback Method
cpg	465.88	J/mol×K	766.82	Joback Method
cpl	438.50	J/mol×K	333.15	Heat capacities of the mixed-solvents desiccants (glycols +water + salts)
cpl	430.90	J/mol×K	313.15	Heat capacities of the mixed-solvents desiccants (glycols +water + salts)
cpl	443.60	J/mol×K	343.15	Heat capacities of the mixed-solvents desiccants (glycols +water + salts)
cpl	449.10	J/mol×K	353.15	Heat capacities of the mixed-solvents desiccants (glycols +water + salts)
cpl	428.50	J/mol×K	303.15	Heat capacities of the mixed-solvents desiccants (glycols +water + salts)

cpl	419.20	J/mol×K	298.00	NIST Webbook
cpl	434.70	J/mol×K	323.15	Heat capacities of the mixed-solvents desiccants (glycols +water + salts)
cpl	428.80	J/mol×K	298.00	NIST Webbook
dvisc	0.0000264	Paxs	589.76	Joback Method
dvisc	0.0000148	Paxs	634.06	Joback Method
dvisc	0.0002920	Paxs	456.85	Joback Method
dvisc	0.0037933	Paxs	368.25	Joback Method
dvisc	0.0001138	Paxs	501.15	Joback Method
dvisc	0.0000517	Paxs	545.46	Joback Method
dvisc	0.0009170	Paxs	412.55	Joback Method
hvapt	99.00 ± 10.00	kJ/mol	273.00	NIST Webbook
hvapt	92.20	kJ/mol	503.50	NIST Webbook
rfi	1.45710		293.15	Infinite Dilution Activity Coefficients of Hydrocarbons in Triethylene Glycol and Tetraethylene Glycol
rho1	1132.10	kg/m3	283.15	Thermophysical properties of glycols and glymes
rho1	1103.20	kg/m3	323.15	Thermophysical properties of glycols and glymes
rho1	1099.20	kg/m3	328.15	Thermophysical properties of glycols and glymes
rho1	1095.30	kg/m3	333.15	Thermophysical properties of glycols and glymes
rho1	1091.30	kg/m3	338.15	Thermophysical properties of glycols and glymes
rho1	1087.30	kg/m3	343.15	Thermophysical properties of glycols and glymes
rho1	1083.40	kg/m3	348.15	Thermophysical properties of glycols and glymes

rho1	1079.40	kg/m3	353.15	Thermophysical properties of glycols and glymes
rho1	1075.30	kg/m3	358.15	Thermophysical properties of glycols and glymes
rho1	1071.30	kg/m3	363.15	Thermophysical properties of glycols and glymes
rho1	1067.30	kg/m3	368.15	Thermophysical properties of glycols and glymes
rho1	1063.20	kg/m3	373.15	Thermophysical properties of glycols and glymes
rho1	1107.20	kg/m3	318.15	Thermophysical properties of glycols and glymes
rho1	1128.10	kg/m3	288.15	Thermophysical properties of glycols and glymes
rho1	1124.10	kg/m3	293.15	Thermophysical properties of glycols and glymes
rho1	1111.10	kg/m3	313.15	Thermophysical properties of glycols and glymes
rho1	1116.10	kg/m3	303.15	Thermophysical properties of glycols and glymes
rho1	1112.20	kg/m3	308.15	Thermophysical properties of glycols and glymes
rho1	1108.20	kg/m3	313.15	Thermophysical properties of glycols and glymes
rho1	1100.20	kg/m3	323.15	Thermophysical properties of glycols and glymes
rho1	1092.20	kg/m3	333.15	Thermophysical properties of glycols and glymes
rho1	1084.30	kg/m3	343.15	Thermophysical properties of glycols and glymes

rhoI	1112.28	kg/m3	308.15	Excess Molar Enthalpies of Binary Mixtures Containing Glycols or Polyglycols + Dimethyl Sulfoxide at 308.15 K
rhoI	1120.09	kg/m3	298.15	Thermodynamic Study of Binary Mixtures Containing Glycols or Polyethylene Glycols + Benzyl Alcohol at 308.15 K
rhoI	1112.31	kg/m3	308.15	Thermodynamic Study of Binary Mixtures Containing Glycols or Polyethylene Glycols + Benzyl Alcohol at 308.15 K
rhoI	1120.09	kg/m3	298.15	Excess Molar Enthalpies and Hydrogen Bonding in Binary Mixtures Containing Glycols or Poly(Ethylene Glycols) and 2-Phenylethyl Alcohol at 308.15 K and Atmospheric Pressure
rhoI	1112.32	kg/m3	308.50	Excess Molar Enthalpies and Hydrogen Bonding in Binary Mixtures Containing Ethers and Benzyl Alcohol at 308.15 K and Atmospheric Pressure
rhoI	1115.10	kg/m3	308.15	Thermophysical properties of glycols and glymes
rhoI	1119.10	kg/m3	303.15	Thermophysical properties of glycols and glymes

rhoI	1123.10	kg/m3	298.15	Thermophysical properties of glycols and glymes
rhoI	1127.10	kg/m3	293.15	Thermophysical properties of glycols and glymes
rhoI	1131.20	kg/m3	288.15	Thermophysical properties of glycols and glymes
rhoI	1112.28	kg/m3	308.15	Excess molar enthalpies of binary mixtures containing ethylene glycols or poly(ethylene glycols) + ethyl alcohol at 308.15K and atmospheric pressure
rhoI	1092.05	kg/m3	333.15	Volumetric and acoustic studies on (tetraethylene glycol + water) mixtures in a wide temperature range
rhoI	1096.04	kg/m3	328.15	Volumetric and acoustic studies on (tetraethylene glycol + water) mixtures in a wide temperature range
rhoI	1100.02	kg/m3	323.15	Volumetric and acoustic studies on (tetraethylene glycol + water) mixtures in a wide temperature range
rhoI	1104.01	kg/m3	318.15	Volumetric and acoustic studies on (tetraethylene glycol + water) mixtures in a wide temperature range
rhoI	1107.98	kg/m3	313.15	Volumetric and acoustic studies on (tetraethylene glycol + water) mixtures in a wide temperature range

rho1	1111.96	kg/m3	308.15	Volumetric and acoustic studies on (tetraethylene glycol + water) mixtures in a wide temperature range
rho1	1115.94	kg/m3	303.15	Volumetric and acoustic studies on (tetraethylene glycol + water) mixtures in a wide temperature range
rho1	1127.88	kg/m3	288.15	Volumetric and acoustic studies on (tetraethylene glycol + water) mixtures in a wide temperature range
rho1	1131.85	kg/m3	283.15	Volumetric and acoustic studies on (tetraethylene glycol + water) mixtures in a wide temperature range
rho1	1135.81	kg/m3	278.15	Volumetric and acoustic studies on (tetraethylene glycol + water) mixtures in a wide temperature range
rho1	1086.00	kg/m3	343.15	Vapour pressures and densities of the mixed-solvent desiccants (glycols + water + salts)
rho1	1093.00	kg/m3	333.15	Vapour pressures and densities of the mixed-solvent desiccants (glycols + water + salts)
rho1	1100.00	kg/m3	323.15	Vapour pressures and densities of the mixed-solvent desiccants (glycols + water + salts)
rho1	1108.00	kg/m3	313.15	Vapour pressures and densities of the mixed-solvent desiccants (glycols + water + salts)

rhoI	1116.00	kg/m <sup>3</sup>	303.15	Vapour pressures and densities of the mixed-solvent desiccants (glycols + water + salts)
rhoI	1123.90	kg/m <sup>3</sup>	293.15	Volumetric and acoustic studies on (tetraethylene glycol + water) mixtures in a wide temperature range
rhoI	1120.10	kg/m <sup>3</sup>	298.15	Thermophysical properties of glycols and glymes
rhoI	1119.92	kg/m <sup>3</sup>	298.15	Volumetric and acoustic studies on (tetraethylene glycol + water) mixtures in a wide temperature range
tcondI	0.19	W/m×K	328.20	Application of the Multi-Current Transient Hot-Wire Technique for Absolute Measurements of the Thermal Conductivity of Glycols
tcondI	0.19	W/m×K	318.30	Application of the Multi-Current Transient Hot-Wire Technique for Absolute Measurements of the Thermal Conductivity of Glycols
tcondI	0.19	W/m×K	308.20	Application of the Multi-Current Transient Hot-Wire Technique for Absolute Measurements of the Thermal Conductivity of Glycols



tcondl	0.18	W/m×K	298.20	Application of the Multi-Current Transient Hot-Wire Technique for Absolute Measurements of the Thermal Conductivity of Glycols
tcondl	0.19	W/m×K	338.20	Application of the Multi-Current Transient Hot-Wire Technique for Absolute Measurements of the Thermal Conductivity of Glycols

## Correlations

Information	Value
Property code	pvap
Equation	$\ln(P_{vp}) = A + B/T + C \cdot \ln(T) + D \cdot T^2$
Coeff. A	2.51044e+02
Coeff. B	-2.43857e+04
Coeff. C	-3.27566e+01
Coeff. D	1.19079e-05
Temperature range (K), min.	268.15
Temperature range (K), max.	722.00

## Datasets

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

Temperature, K - Liquid	Pressure, kPa - Liquid	Mass density, kg/m <sup>3</sup> - Liquid
283.13	100.00	1132.0
283.13	1000.00	1132.4
283.13	2000.00	1132.8
283.13	5000.00	1134.1

283.13	7000.00	1135.0
283.13	10000.00	1136.4
283.13	12000.00	1137.2
283.13	16000.00	1138.9
283.13	20000.00	1140.6
283.13	25000.00	1142.8
283.13	30000.00	1144.8
283.13	35000.00	1146.9
283.13	40000.00	1148.8
283.13	45000.00	1150.7
283.13	50000.00	1152.6
283.13	55000.00	1154.5
283.13	60000.00	1156.3
283.13	65000.00	1158.2
283.13	70000.00	1159.9
283.13	75000.00	1161.7
283.13	80000.00	1163.3
283.13	85000.00	1165.1
283.13	90000.00	1166.7
283.13	95000.00	1168.4
293.11	100.00	1123.8
293.11	1000.00	1124.2
293.11	2000.00	1124.7
293.11	5000.00	1126.1
293.11	7000.00	1127.0
293.11	10000.00	1128.4
293.11	12000.00	1129.2
293.11	16000.00	1131.1
293.11	20000.00	1132.8
293.11	25000.00	1134.9
293.11	30000.00	1137.1
293.11	35000.00	1139.0
293.11	40000.00	1141.1
293.11	45000.00	1143.1
293.11	50000.00	1145.1
293.11	55000.00	1147.0
293.11	60000.00	1148.9
293.11	65000.00	1150.8
293.11	70000.00	1152.6
293.11	75000.00	1154.4
293.11	80000.00	1156.2
293.11	85000.00	1157.9
293.11	90000.00	1159.6
293.11	95000.00	1161.3

303.13	100.00	1115.8
303.13	1000.00	1116.1
303.13	2000.00	1116.7
303.13	5000.00	1118.1
303.13	7000.00	1119.1
303.13	10000.00	1120.5
303.13	12000.00	1121.4
303.13	16000.00	1123.3
303.13	20000.00	1125.0
303.13	25000.00	1127.3
303.13	30000.00	1129.5
303.13	35000.00	1131.6
303.13	40000.00	1133.7
303.13	45000.00	1135.7
303.13	50000.00	1137.7
303.13	55000.00	1139.7
303.13	60000.00	1141.7
303.13	65000.00	1143.6
303.13	70000.00	1145.5
303.13	75000.00	1147.4
303.13	80000.00	1149.1
303.13	85000.00	1150.8
303.13	90000.00	1152.6
303.13	95000.00	1154.4
313.22	100.00	1107.8
313.22	1000.00	1108.1
313.22	2000.00	1108.6
313.22	5000.00	1110.1
313.22	7000.00	1111.1
313.22	10000.00	1112.6
313.22	12000.00	1113.6
313.22	16000.00	1115.5
313.22	20000.00	1117.3
313.22	25000.00	1119.7
313.22	30000.00	1121.9
313.22	35000.00	1124.1
313.22	40000.00	1126.3
313.22	45000.00	1128.4
313.22	50000.00	1130.4
313.22	55000.00	1132.5
313.22	60000.00	1134.5
313.22	65000.00	1136.5
313.22	70000.00	1138.4
313.22	75000.00	1140.3

313.22	80000.00	1142.2
313.22	85000.00	1144.0
313.22	90000.00	1145.8
313.22	95000.00	1147.7
323.20	100.00	1099.8
323.20	1000.00	1100.1
323.20	2000.00	1100.6
323.20	5000.00	1102.2
323.20	7000.00	1103.2
323.20	10000.00	1104.7
323.20	12000.00	1105.6
323.20	16000.00	1107.7
323.20	20000.00	1109.6
323.20	25000.00	1111.9
323.20	30000.00	1114.3
323.20	35000.00	1116.6
323.20	40000.00	1118.8
323.20	45000.00	1121.0
323.20	50000.00	1123.2
323.20	55000.00	1125.5
323.20	60000.00	1127.4
323.20	65000.00	1129.4
323.20	70000.00	1131.3
323.20	75000.00	1133.3
323.20	80000.00	1135.2
323.20	85000.00	1137.1
323.20	90000.00	1139.0
323.20	95000.00	1140.7
333.20	100.00	1091.8
333.20	1000.00	1092.3
333.20	2000.00	1092.9
333.20	5000.00	1094.5
333.20	7000.00	1095.6
333.20	10000.00	1097.1
333.20	12000.00	1098.1
333.20	16000.00	1100.2
333.20	20000.00	1102.2
333.20	25000.00	1104.6
333.20	30000.00	1107.1
333.20	35000.00	1109.4
333.20	40000.00	1111.7
333.20	45000.00	1113.9
333.20	50000.00	1116.2
333.20	55000.00	1118.4

333.20	60000.00	1120.5
333.20	65000.00	1122.5
333.20	70000.00	1124.6
333.20	75000.00	1126.6
333.20	80000.00	1128.5
333.20	85000.00	1130.4
333.20	90000.00	1132.2
333.20	95000.00	1134.1
343.17	100.00	1084.0
343.17	1000.00	1084.4
343.17	2000.00	1085.0
343.17	5000.00	1086.7
343.17	7000.00	1087.7
343.17	10000.00	1089.4
343.17	12000.00	1090.4
343.17	16000.00	1092.5
343.17	20000.00	1094.6
343.17	25000.00	1097.1
343.17	30000.00	1099.7
343.17	35000.00	1102.1
343.17	40000.00	1104.5
343.17	45000.00	1106.8
343.17	50000.00	1109.1
343.17	55000.00	1111.3
343.17	60000.00	1113.5
343.17	65000.00	1115.7
343.17	70000.00	1117.7
343.17	75000.00	1119.8
343.17	80000.00	1121.9
343.17	85000.00	1123.8
343.17	90000.00	1125.8
343.17	95000.00	1127.6
353.13	100.00	1075.9
353.13	1000.00	1076.4
353.13	2000.00	1076.9
353.13	5000.00	1078.7
353.13	7000.00	1079.9
353.13	10000.00	1081.6
353.13	12000.00	1082.8
353.13	16000.00	1084.9
353.13	20000.00	1087.1
353.13	25000.00	1089.8
353.13	30000.00	1092.3
353.13	35000.00	1094.9

353.13	40000.00	1097.3
353.13	45000.00	1099.8
353.13	50000.00	1102.1
353.13	55000.00	1104.3
353.13	60000.00	1106.6
353.13	65000.00	1108.9
353.13	70000.00	1111.0
353.13	75000.00	1113.2
353.13	80000.00	1115.2
353.13	85000.00	1117.2
353.13	90000.00	1119.2
353.13	95000.00	1121.1
363.20	100.00	1067.8
363.20	1000.00	1068.4
363.20	2000.00	1069.0
363.20	5000.00	1070.8
363.20	7000.00	1072.0
363.20	10000.00	1073.7
363.20	12000.00	1074.9
363.20	16000.00	1077.1
363.20	20000.00	1079.5
363.20	25000.00	1082.3
363.20	30000.00	1084.8
363.20	35000.00	1087.5
363.20	40000.00	1089.9
363.20	45000.00	1092.4
363.20	50000.00	1094.8
363.20	55000.00	1097.2
363.20	60000.00	1099.5
363.20	65000.00	1101.8
363.20	70000.00	1104.0
363.20	75000.00	1106.2
363.20	80000.00	1108.4
363.20	85000.00	1110.4
363.20	90000.00	1112.5
363.20	95000.00	1114.4

Reference

<https://www.doi.org/10.1016/j.fluid.2017.01.003>

Temperature, K	Pressure, kPa	Mass density, kg/m <sup>3</sup>
283.15	100.00	1130.1
283.15	100.00	1130.1
283.15	630.00	1130.3

283.15	1170.00	1130.2
283.15	1640.00	1130.8
283.15	2110.00	1131.0
283.15	3060.00	1131.4
283.15	5060.00	1132.2
283.15	7000.00	1133.1
283.15	9990.00	1134.3
283.15	14800.00	1136.3
283.15	19770.00	1138.4
283.15	24630.00	1140.4
283.15	29550.00	1142.3
283.15	34530.00	1144.2
283.15	39370.00	1146.1
283.15	44340.00	1147.9
283.15	49210.00	1149.7
283.15	54130.00	1151.5
283.15	59040.00	1153.3
283.15	63940.00	1155.0
283.15	68790.00	1156.7
293.15	100.00	1122.0
293.15	100.00	1122.0
293.15	570.00	1122.2
293.15	1090.00	1122.4
293.15	1480.00	1122.6
293.15	2030.00	1122.8
293.15	3030.00	1123.3
293.15	5050.00	1124.2
293.15	7090.00	1125.1
293.15	9890.00	1126.3
293.15	14910.00	1128.5
293.15	19720.00	1130.5
293.15	24600.00	1132.6
293.15	29670.00	1134.6
293.15	34600.00	1136.6
293.15	39380.00	1138.5
293.15	44310.00	1140.4
293.15	49240.00	1142.3
293.15	54080.00	1144.1
293.15	58950.00	1145.9
293.15	63910.00	1147.7
293.15	68760.00	1149.4
303.15	100.00	1114.0
303.15	100.00	1114.0
303.15	630.00	1114.2

303.15	1200.00	1114.5
303.15	1610.00	1114.7
303.15	2120.00	1114.9
303.15	3090.00	1115.4
303.15	5080.00	1116.3
303.15	7050.00	1117.2
303.15	10000.00	1118.5
303.15	14920.00	1120.8
303.15	19740.00	1122.9
303.15	24580.00	1125.0
303.15	29520.00	1127.1
303.15	34410.00	1129.1
303.15	39420.00	1131.2
303.15	44270.00	1133.1
303.15	49210.00	1135.1
303.15	54140.00	1136.9
303.15	59090.00	1138.8
303.15	63880.00	1140.6
303.15	68800.00	1142.4
313.15	100.00	1106.0
313.15	100.00	1106.0
313.15	570.00	1106.3
313.15	1110.00	1106.5
313.15	1570.00	1106.7
313.15	2100.00	1107.0
313.15	3080.00	1107.5
313.15	5070.00	1108.4
313.15	7000.00	1109.4
313.15	9960.00	1110.7
313.15	14830.00	1113.0
313.15	19730.00	1115.2
313.15	24720.00	1117.5
313.15	29640.00	1119.6
313.15	34400.00	1121.8
313.15	39380.00	1123.8
313.15	44210.00	1125.9
313.15	49240.00	1127.8
313.15	54040.00	1129.8
313.15	59030.00	1131.7
313.15	63920.00	1133.6
313.15	68770.00	1135.4
323.15	100.00	1098.0
323.15	100.00	1098.0
323.15	590.00	1098.3



323.15	1180.00	1098.5
323.15	1580.00	1098.8
323.15	2100.00	1099.0
323.15	3000.00	1099.5
323.15	5060.00	1100.5
323.15	7010.00	1101.5
323.15	9930.00	1102.9
323.15	14900.00	1105.3
323.15	19770.00	1107.6
323.15	24760.00	1110.0
323.15	29530.00	1112.1
323.15	34470.00	1114.4
323.15	39440.00	1116.5
323.15	44180.00	1118.6
323.15	49200.00	1120.6
323.15	54100.00	1122.7
323.15	58970.00	1124.6
323.15	63800.00	1126.5
323.15	68790.00	1128.4
333.15	100.00	1090.1
333.15	100.00	1090.1
333.15	660.00	1090.4
333.15	1170.00	1090.6
333.15	1590.00	1090.8
333.15	2110.00	1091.1
333.15	3020.00	1091.6
333.15	5110.00	1092.7
333.15	6990.00	1093.7
333.15	9900.00	1095.1
333.15	14860.00	1097.7
333.15	19730.00	1100.0
333.15	23990.00	1102.6
333.15	29600.00	1104.7
333.15	34450.00	1107.1
333.15	39370.00	1109.2
333.15	44310.00	1111.5
333.15	49120.00	1113.5
333.15	54060.00	1115.6
333.15	59100.00	1117.7
333.15	63900.00	1119.7
333.15	68790.00	1121.6
343.15	100.00	1082.1
343.15	100.00	1082.1
343.15	720.00	1082.5

343.15	1090.00	1082.7
343.15	1600.00	1082.9
343.15	2060.00	1083.2
343.15	3100.00	1083.7
343.15	5040.00	1084.8
343.15	6870.00	1085.8
343.15	9930.00	1087.4
343.15	14830.00	1090.0
343.15	19790.00	1092.5
343.15	24630.00	1095.0
343.15	29580.00	1097.4
343.15	34440.00	1099.7
343.15	39430.00	1102.1
343.15	44410.00	1104.4
343.15	49170.00	1106.5
343.15	54160.00	1108.6
343.15	58970.00	1110.7
343.15	63920.00	1112.8
343.15	68720.00	1114.7
353.15	100.00	1074.1
353.15	100.00	1074.1
353.15	560.00	1074.4
353.15	1190.00	1074.7
353.15	1660.00	1075.0
353.15	2160.00	1075.3
353.15	3100.00	1075.8
353.15	5040.00	1076.9
353.15	6910.00	1078.0
353.15	10040.00	1079.7
353.15	14770.00	1082.3
353.15	19790.00	1085.0
353.15	24570.00	1087.5
353.15	29460.00	1090.0
353.15	34560.00	1092.5
353.15	39340.00	1094.8
353.15	44310.00	1097.2
353.15	49190.00	1099.5
353.15	54020.00	1101.6
353.15	59160.00	1103.9
353.15	63870.00	1106.0
353.15	68800.00	1108.0
363.15	100.00	1066.1
363.15	100.00	1066.1
363.15	650.00	1066.5

363.15	1150.00	1066.7
363.15	1550.00	1067.0
363.15	2070.00	1067.2
363.15	3090.00	1067.9
363.15	5060.00	1069.0
363.15	7010.00	1070.2
363.15	9860.00	1071.8
363.15	14820.00	1074.7
363.15	19750.00	1077.4
363.15	24740.00	1080.1
363.15	29560.00	1082.6
363.15	34540.00	1085.2
363.15	39360.00	1087.6
363.15	44280.00	1090.1
363.15	49130.00	1092.3
363.15	54040.00	1094.7
363.15	59030.00	1097.0
363.15	63900.00	1099.1
363.15	68810.00	1101.6

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