

1 SUPPLEMENTARY MATERIAL

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3 **Modelling of pure components high pressures densities using CK-SAFT and PC-SAFT**
4 **equations**

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16 TABLE SI: Equations for the dispersion term used in different SAFT equations
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SAFT type	Dispersion term (a^{disp})
Original SAFT	$a_0^{disp} = \frac{\varepsilon R}{k} (a_{01}^{disp} + \frac{a_{02}^{disp}}{T_R}); T_R = kT / \varepsilon; \rho_R = [6 / (2^{0.5} \pi)] \eta$ $a_{01}^{disp} = \rho_R [-0.85959 - 4.5424 \rho_R - 2.1268 \rho_R^2 + 10.285 \rho_R^3]$ $a_{02}^{disp} = \rho_R [-1.9075 + 9.9724 \rho_R - 22.216 \rho_R^2 + 15.904 \rho_R^3]$
CK-SAFT	$\frac{a_0^{disp}}{RT} = \sum_i \sum_j D_{ij} \left[\frac{u}{kT} \right]^i \left[\frac{\eta}{\tau} \right]^j$ $u = u^0 (1 + e / kT); e/k = 10; \tau = 0.74048$
SAFT-VR	$a^{disp} = \frac{a_1}{kT} + \frac{a_2}{(kT)^2}$ $a_1 = -\rho_s \sum_i \sum_j x_{s,i} x_{s,j} \alpha_{ij}^{VDW} g^{HS} [\sigma_x; \zeta_x^{eff}]$ $a_2 = \sum_{i=1}^n \sum_{j=1}^n x_{s,i} x_{s,j} \frac{1}{2} K_{HS} \varepsilon_{ij} \rho_s \frac{\partial a_1}{\partial \rho_s}$ $\alpha_{ij}^{VDW} = 2\pi \varepsilon_{ij} \sigma_{ij}^3 (\lambda_{ij}^3 - 1) / 3; \zeta_x^{eff} = c_1 \zeta_x + c_2 \zeta_x^2 + c_3 \zeta_x^3$ $\sigma_x^3 = \sum_i \sum_j x_{s,i} x_{s,j} \sigma_{ij}^3; \zeta_x = \frac{\pi}{6} \rho_s \sigma_x^3$ $K_{HS} = \frac{\zeta_0 (1 - \zeta_3)^4}{\zeta_0 (1 - \zeta_3)^2 + 6\zeta_1 \zeta_2 (1 - \zeta_3) + 9\zeta_2^3}$
PC-SAFT	$\frac{a^{disp}}{kTN} = \frac{A_1}{kTN} + \frac{A_2}{kTN}$ $\frac{A_1}{kTN} = -2\pi \rho m^2 \left(\frac{\varepsilon}{kT} \right) \sigma^3 \int_1^\infty \hat{u}(x) g^{hc}(m; x\sigma / d) x^2 dx$ $\frac{A_2}{kTN} = -\pi \rho m (1 + Z^{hc} + \rho \frac{\partial Z^{hc}}{\partial \rho})^{-1} m^2 \left(\frac{\varepsilon}{kT} \right)^2 \sigma^3 \cdot$ $\cdot \frac{\partial}{\partial \rho} \left[\rho \int_1^\infty \hat{u}(x)^2 g^{hc}(m; x\sigma / d) x^2 dx \right]$ $x = r / \sigma; \hat{u}(x) = u(x) / \varepsilon$

TABLE SII: Calculated densities for the investigated pure components using CK-SAFT equation

<i>P</i> /MPa	$\rho/\text{kg}\cdot\text{m}^{-3}$															
	<i>T</i> /K															
	288.15	293.15	298.15	303.15	308.15	313.15	318.15	323.15	328.15	333.15	343.15	353.15	363.15	373.15	393.15	413.15
<i>n</i> -Hexane																
0.1	665.3	660.4	655.5	650.6	645.7	640.9	636.0	631.1	626.3	621.4						
1	666.2	661.3	656.5	651.6	646.8	641.9	637.1	632.3	627.4	622.6	612.9	603.3	593.6	583.8	564.2	544.2
5	670.2	665.4	660.7	656.0	651.2	646.5	641.8	637.1	632.5	627.8	618.5	609.1	599.8	590.5	571.7	552.8
10	674.9	670.3	665.7	661.1	656.6	652.0	647.4	642.9	638.4	633.9	624.9	615.9	607.0	598.1	580.3	562.4
15	679.5	675.0	670.5	666.0	661.6	657.1	652.7	648.3	644.0	639.6	630.9	622.3	613.7	605.1	588.1	571.1
20	683.8	679.4	675.0	670.7	666.3	662.0	657.7	653.5	649.2	645.0	636.6	628.2	619.9	611.7	595.3	579.0
25	687.9	683.6	679.4	675.1	670.9	666.7	662.5	658.3	654.2	650.1	641.9	633.8	625.8	617.8	602.0	586.3
30	691.9	687.7	683.5	679.4	675.2	671.1	667.0	663.0	658.9	654.9	647.0	639.1	631.3	623.5	608.2	593.1
35	695.7	691.6	687.5	683.4	679.4	675.4	671.4	667.4	663.5	659.5	651.8	644.1	636.5	628.9	614.1	599.5
40	699.4	695.4	691.3	687.4	683.4	679.4	675.5	671.7	667.8	664.0	656.4	648.9	641.4	634.1	619.6	605.5
45	703.0	699.0	695.1	691.1	687.2	683.4	679.5	675.7	671.9	668.2	660.8	653.4	646.2	639.0	624.9	611.1
50	706.4	702.5	698.6	694.8	690.9	687.2	683.4	679.6	675.9	672.3	665.0	657.8	650.7	643.7	629.9	616.4
55	709.8	705.9	702.1	698.3	694.5	690.8	687.1	683.4	679.8	676.2	669.0	662.0	655.0	648.2	634.7	621.5
60	713.0	709.2	705.4	701.7	698.0	694.3	690.7	687.1	683.5	679.9	672.9	666.0	659.2	652.5	639.3	626.4
<i>n</i> -Heptane																
	288.15	293.15	298.15	303.15	308.15	313.15	318.15	323.15	328.15	333.15	343.15	353.15	363.15	373.15	393.15	413.15
0.1	689.9	685.1	680.3	675.5	670.7	666.0	661.2	656.5	651.8	647.0	637.6	628.2	618.8			
1	690.8	686.0	681.2	676.4	671.7	667.0	662.2	657.5	652.8	648.1	638.8	629.4	620.1	610.7	592.0	573.0
5	694.5	689.8	685.2	680.5	675.9	671.3	666.7	662.1	657.5	653.0	643.9	634.8	625.8	616.7	598.7	580.6
10	699.0	694.5	689.9	685.4	680.9	676.4	671.9	667.5	663.1	658.6	649.9	641.1	632.4	623.7	606.5	589.3
15	703.3	698.9	694.4	690.0	685.6	681.3	676.9	672.6	668.3	664.0	655.5	647.0	638.6	630.3	613.7	597.2
20	707.5	703.1	698.8	694.5	690.2	685.9	681.7	677.5	673.3	669.1	660.8	652.6	644.4	636.3	620.3	604.5
25	711.4	707.2	702.9	698.7	694.5	690.3	686.2	682.1	678.0	673.9	665.8	657.9	649.9	642.1	626.6	611.3
30	715.3	711.1	706.9	702.8	698.7	694.6	690.5	686.5	682.5	678.5	670.7	662.9	655.1	647.5	632.4	617.6
35	718.9	714.8	710.7	706.7	702.7	698.7	694.7	690.7	686.8	682.9	675.2	667.6	660.1	652.7	638.0	623.6

40	722.5	718.5	714.4	710.5	706.5	702.6	698.7	694.8	691.0	687.2	679.6	672.2	664.8	657.6	643.3	629.3
45	725.9	722.0	718.0	714.1	710.2	706.4	702.5	698.7	695.0	691.2	683.9	676.6	669.4	662.2	648.3	634.6
50	729.3	725.4	721.5	717.6	713.8	710.0	706.3	702.5	698.8	695.2	687.9	680.8	673.7	666.7	653.1	639.7
55	732.5	728.7	724.8	721.0	717.3	713.6	709.9	706.2	702.6	698.9	691.8	684.8	677.9	671.0	657.7	644.6
60	735.7	731.9	728.1	724.4	720.6	717.0	713.3	709.7	706.1	702.6	695.6	688.7	681.9	675.2	662.1	649.3

***n*-Octane**

	288.15	293.15	298.15	303.15	308.15	313.15	318.15	323.15	328.15	333.15	343.15	353.15	363.15	373.15	393.15	413.15
0.1	708.4	703.6	698.9	694.1	689.4	684.7	680.1	675.4	670.7	666.1	656.8	647.6	638.3	629.1	610.7	
1	709.2	704.5	699.8	695.1	690.4	685.7	681.0	676.4	671.8	667.1	657.9	648.8	639.6	630.5	612.2	593.9
5	712.9	708.2	703.6	699.0	694.4	689.8	685.3	680.8	676.2	671.7	662.8	653.9	645.0	636.1	618.5	600.9
10	717.3	712.7	708.2	703.7	699.2	694.8	690.4	686.0	681.6	677.2	668.5	659.9	651.3	642.8	625.9	609.0
15	721.4	717.0	712.6	708.2	703.8	699.5	695.2	690.9	686.6	682.4	673.9	665.6	657.3	649.0	632.7	616.5
20	725.5	721.1	716.8	712.5	708.2	704.0	699.8	695.6	691.4	687.3	679.1	670.9	662.9	654.9	639.1	623.5
25	729.3	725.1	720.8	716.6	712.5	708.3	704.2	700.1	696.0	692.0	684.0	676.0	668.2	660.4	645.1	630.0
30	733.1	728.9	724.7	720.6	716.5	712.5	708.4	704.4	700.4	696.5	688.6	680.9	673.2	665.6	650.7	636.1
35	736.7	732.6	728.5	724.4	720.4	716.4	712.5	708.5	704.6	700.8	693.1	685.5	678.0	670.6	656.1	641.8
40	740.2	736.1	732.1	728.1	724.2	720.3	716.4	712.5	708.7	704.9	697.4	690.0	682.6	675.4	661.2	647.3
45	743.6	739.6	735.6	731.7	727.8	724.0	720.2	716.4	712.6	708.9	701.5	694.2	687.0	680.0	666.1	652.5
50	746.9	742.9	739.0	735.2	731.4	727.6	723.8	720.1	716.4	712.7	705.5	698.3	691.3	684.3	670.7	657.4
55	750.1	746.2	742.3	738.5	734.8	731.0	727.3	723.7	720.0	716.4	709.3	702.3	695.4	688.5	675.2	662.2
60	753.2	749.3	745.6	741.8	738.1	734.4	730.8	727.1	723.6	720.0	713.0	706.1	699.3	692.6	679.5	666.7

Toluene

	288.15	293.15	298.15	303.15	308.15	313.15	318.15	323.15	328.15	333.15	343.15	353.15	363.15	373.15	393.15	413.15
0.1	870.8	866.1	861.4	856.7	852.0	847.3	842.7	838.0	833.3	828.6	819.2	809.8	800.4	791.0		
1	871.5	866.8	862.1	857.5	852.8	848.1	843.4	838.8	834.1	829.4	820.1	810.7	801.4	792.1	773.4	754.6
5	874.5	869.9	865.3	860.7	856.1	851.5	846.9	842.3	837.7	833.1	823.9	814.8	805.7	796.5	778.3	760.0
10	878.1	873.6	869.1	864.6	860.1	855.5	851.0	846.5	842.0	837.6	828.6	819.7	810.7	801.9	784.1	766.5
15	881.7	877.2	872.8	868.3	863.9	859.5	855.1	850.6	846.2	841.8	833.1	824.3	815.6	806.9	789.7	772.5
20	885.1	880.7	876.3	872.0	867.6	863.3	858.9	854.6	850.3	846.0	837.3	828.8	820.3	811.8	794.9	778.2
25	888.4	884.1	879.8	875.5	871.2	867.0	862.7	858.4	854.2	849.9	841.5	833.1	824.7	816.4	800.0	783.7
30	891.7	887.4	883.2	879.0	874.7	870.5	866.3	862.1	858.0	853.8	845.5	837.2	829.1	820.9	804.8	788.9

35	894.9	890.7	886.5	882.3	878.2	874.0	869.9	865.7	861.6	857.5	849.4	841.3	833.2	825.2	809.4	793.9
40	898.0	893.8	889.7	885.6	881.5	877.4	873.3	869.2	865.2	861.1	853.1	845.1	837.2	829.4	813.9	798.6
45	901.0	896.9	892.8	888.8	884.7	880.7	876.7	872.6	868.6	864.7	856.7	848.9	841.1	833.4	818.2	803.2
50	904.0	899.9	895.9	891.9	887.9	883.9	879.9	876.0	872.0	868.1	860.3	852.6	844.9	837.3	822.3	807.6
55	906.9	902.9	898.9	894.9	891.0	887.0	883.1	879.2	875.3	871.4	863.7	856.1	848.5	841.1	826.3	811.9
60	909.7	905.8	901.8	897.9	894.0	890.1	886.2	882.3	878.5	874.7	867.1	859.5	852.1	844.7	830.2	816.0

Dichloromethane

	288.15	293.15	298.15	303.15	308.15	313.15	318.15	323.15	328.15	333.15	343.15	353.15	363.15	373.15	393.15	413.15
0.1	1334.4	1324.8	1315.2	1305.6	1296.0	1286.3										
1	1335.6	1326.1	1316.5	1307.0	1297.4	1287.8	1278.1	1268.4	1258.7	1248.9	1229.3	1209.4	1189.3	1169.0	1127.4	1084.1
5	1340.9	1331.6	1322.2	1312.9	1303.4	1294.0	1284.6	1275.1	1265.6	1256.1	1236.9	1217.6	1198.1	1178.5	1138.4	1097.1
10	1347.4	1338.3	1329.1	1319.9	1310.7	1301.5	1292.3	1283.1	1273.9	1264.6	1246.0	1227.3	1208.5	1189.6	1151.3	1112.1
15	1353.6	1344.7	1335.7	1326.7	1317.7	1308.8	1299.8	1290.8	1281.7	1272.7	1254.6	1236.5	1218.3	1200.0	1163.1	1125.7
20	1359.7	1350.9	1342.1	1333.3	1324.5	1315.7	1306.9	1298.1	1289.3	1280.5	1262.9	1245.2	1227.5	1209.8	1174.2	1138.2
25	1365.5	1356.9	1348.2	1339.6	1331.0	1322.3	1313.7	1305.1	1296.5	1287.9	1270.7	1253.5	1236.3	1219.1	1184.6	1149.9
30	1371.2	1362.7	1354.2	1345.7	1337.2	1328.8	1320.3	1311.9	1303.5	1295.0	1278.2	1261.4	1244.7	1227.9	1194.4	1160.9
35	1376.7	1368.3	1360.0	1351.6	1343.3	1335.0	1326.7	1318.4	1310.2	1301.9	1285.4	1269.0	1252.6	1236.3	1203.7	1171.2
40	1382.0	1373.8	1365.6	1357.4	1349.2	1341.0	1332.9	1324.7	1316.6	1308.5	1292.4	1276.3	1260.3	1244.3	1212.5	1180.9
45	1387.2	1379.1	1371.0	1362.9	1354.9	1346.9	1338.8	1330.8	1322.9	1314.9	1299.1	1283.3	1267.6	1252.0	1221.0	1190.1
50	1392.3	1384.3	1376.3	1368.4	1360.4	1352.5	1344.6	1336.8	1328.9	1321.1	1305.5	1290.1	1274.7	1259.4	1229.0	1198.9
55	1397.2	1389.4	1381.5	1373.6	1365.8	1358.0	1350.2	1342.5	1334.8	1327.1	1311.8	1296.6	1281.5	1266.5	1236.8	1207.3
60	1402.1	1394.3	1386.5	1378.8	1371.1	1363.4	1355.7	1348.1	1340.5	1332.9	1317.9	1302.9	1288.1	1273.3	1244.2	1215.4

Ethanol

	288.15	293.15	298.15	303.15	308.15	313.15	318.15	323.15	328.15	333.15	343.15	353.15	363.15	373.15	393.15	413.15
0.1	797.7	793.1	788.4	783.7	779.0	774.2	769.5	764.6	759.8	754.9	745.0					
1	798.4	793.7	789.1	784.4	779.7	775.0	770.3	765.5	760.7	755.8	745.9	735.9	725.5	715.0	692.9	669.4
5	801.3	796.7	792.1	787.6	783.0	778.4	773.7	769.1	764.4	759.6	750.0	740.3	730.3	720.1	698.9	676.6
10	804.8	800.3	795.8	791.4	786.9	782.4	777.9	773.4	768.8	764.2	754.9	745.5	735.9	726.1	705.9	684.8
15	808.1	803.8	799.4	795.0	790.7	786.3	781.9	777.5	773.0	768.6	759.5	750.4	741.1	731.7	712.3	692.2
20	811.4	807.1	802.8	798.6	794.3	790.0	785.7	781.4	777.1	772.7	764.0	755.1	746.1	737.0	718.3	699.1
25	814.5	810.3	806.2	802.0	797.8	793.6	789.4	785.2	781.0	776.7	768.2	759.5	750.8	741.9	723.9	705.4

30	817.6	813.5	809.4	805.3	801.2	797.1	793.0	788.8	784.7	780.6	772.2	763.8	755.3	746.7	729.2	711.4
35	820.6	816.5	812.5	808.5	804.5	800.4	796.4	792.4	788.3	784.3	776.1	767.9	759.6	751.2	734.2	716.9
40	823.5	819.5	815.5	811.6	807.6	803.7	799.7	795.8	791.8	787.8	779.9	771.8	763.7	755.5	739.0	722.2
45	826.3	822.4	818.5	814.6	810.7	806.8	803.0	799.1	795.2	791.3	783.5	775.6	767.7	759.7	743.6	727.2
50	829.1	825.2	821.4	817.5	813.7	809.9	806.1	802.3	798.5	794.6	787.0	779.2	771.5	763.7	747.9	732.0
55	831.8	828.0	824.2	820.4	816.7	812.9	809.2	805.4	801.7	797.9	790.3	782.8	775.2	767.5	752.1	736.6
60	834.4	830.7	826.9	823.2	819.5	815.8	812.1	808.4	804.7	801.0	793.6	786.2	778.7	771.2	756.1	741.0

TABLE SIII: Calculated densities for the investigated pure components using PC – SAFT equation

<i>P</i> /Mpa	$\rho/\text{kg}\cdot\text{m}^{-3}$															
	<i>T</i> /K															
	288.15	293.15	298.15	303.15	308.15	313.15	318.15	323.15	328.15	333.15	343.15	353.15	363.15	373.15	393.15	413.15
	<i>n</i>-Hexane															
0.1	663.2	658.9	654.6	650.3	645.9	641.5	637.0	632.5	627.9	623.3						
1	664.1	659.8	655.6	651.3	646.9	642.5	638.1	633.6	629.1	624.5	615.1	605.4	595.3	584.8	562.0	536.1
5	667.9	663.7	659.6	655.4	651.2	647.0	642.7	638.4	634.0	629.6	620.7	611.5	602.0	592.2	571.2	548.0
10	672.4	668.4	664.4	660.3	656.3	652.2	648.1	644.0	639.8	635.7	627.1	618.5	609.6	600.4	581.2	560.4
15	676.6	672.8	668.9	665.0	661.1	657.1	653.2	649.2	645.2	641.2	633.1	624.9	616.4	607.8	590.0	571.0
20	680.7	676.9	673.2	669.4	665.6	661.8	658.0	654.2	650.3	646.5	638.7	630.8	622.8	614.6	597.8	580.2
25	684.6	680.9	677.3	673.6	669.9	666.2	662.5	658.8	655.1	651.4	643.9	636.3	628.6	620.9	604.9	588.4
30	688.3	684.8	681.2	677.6	674.0	670.4	666.8	663.2	659.6	656.0	648.8	641.5	634.1	626.7	611.5	595.8
35	691.9	688.4	684.9	681.4	677.9	674.4	670.9	667.4	663.9	660.4	653.4	646.3	639.2	632.1	617.5	602.6
40	695.4	692.0	688.5	685.1	681.7	678.3	674.9	671.4	668.0	664.6	657.8	651.0	644.1	637.2	623.2	608.9
45	698.7	695.4	692.0	688.6	685.3	682.0	678.6	675.3	672.0	668.7	662.0	655.4	648.7	642.0	628.5	614.8
50	702.0	698.6	695.3	692.1	688.8	685.5	682.2	679.0	675.7	672.5	666.0	659.6	653.1	646.6	633.5	620.3
55	705.1	701.8	698.6	695.4	692.1	688.9	685.7	682.6	679.4	676.2	669.9	663.6	657.2	650.9	638.3	625.5
60	708.1	704.9	701.7	698.5	695.4	692.2	689.1	686.0	682.9	679.8	673.6	667.4	661.2	655.1	642.8	630.4
	<i>n</i>-Heptane															

	288.15	293.15	298.15	303.15	308.15	313.15	318.15	323.15	328.15	333.15	343.15	353.15	363.15	373.15	393.15	413.15
0.1	687.5	683.4	679.3	675.2	671.1	666.9	662.7	658.5	654.2	649.9	641.2	632.3	623.1			
1	688.3	684.3	680.2	676.1	671.9	667.8	663.6	659.4	655.2	651.0	642.3	633.5	624.4	615.1	595.5	574.2
5	691.8	687.8	683.8	679.8	675.8	671.8	667.7	663.7	659.6	655.5	647.1	638.7	630.0	621.2	602.7	582.9
10	695.9	692.0	688.1	684.3	680.4	676.5	672.6	668.6	664.7	660.8	652.8	644.7	636.5	628.1	610.8	592.5
15	699.8	696.1	692.3	688.5	684.7	680.9	677.2	673.4	669.6	665.7	658.1	650.3	642.4	634.5	618.1	601.0
20	703.6	699.9	696.2	692.6	688.9	685.2	681.5	677.8	674.1	670.5	663.0	655.6	648.0	640.4	624.8	608.7
25	707.3	703.6	700.0	696.4	692.9	689.3	685.7	682.1	678.5	674.9	667.7	660.5	653.2	645.9	631.0	615.7
30	710.8	707.2	703.7	700.2	696.7	693.2	689.7	686.2	682.7	679.2	672.2	665.2	658.2	651.1	636.8	622.2
35	714.2	710.7	707.2	703.8	700.3	696.9	693.5	690.1	686.7	683.3	676.5	669.7	662.8	656.0	642.2	628.2
40	717.4	714.0	710.6	707.2	703.9	700.5	697.2	693.8	690.5	687.2	680.5	673.9	667.3	660.7	647.3	633.8
45	720.6	717.2	713.9	710.6	707.3	704.0	700.7	697.4	694.2	690.9	684.5	678.0	671.5	665.1	652.1	639.1
50	723.7	720.4	717.1	713.8	710.6	707.3	704.1	700.9	697.7	694.5	688.2	681.9	675.6	669.3	656.7	644.1
55	726.7	723.4	720.2	717.0	713.8	710.6	707.4	704.3	701.2	698.0	691.8	685.6	679.5	673.4	661.1	648.8
60	729.6	726.4	723.2	720.0	716.9	713.7	710.6	707.5	704.5	701.4	695.3	689.3	683.2	677.2	665.3	653.3

n-Octane

	288.15	293.15	298.15	303.15	308.15	313.15	318.15	323.15	328.15	333.15	343.15	353.15	363.15	373.15	393.15	413.15
0.1	705.8	701.8	697.9	693.9	689.9	685.9	681.9	677.9	673.8	669.8	661.6	653.3	644.8	636.1	618.1	
1	706.6	702.6	698.6	694.7	690.7	686.8	682.8	678.8	674.8	670.7	662.6	654.3	645.9	637.4	619.6	600.7
5	709.8	705.9	702.0	698.2	694.3	690.4	686.5	682.6	678.7	674.8	666.9	659.0	650.9	642.6	625.7	607.9
10	713.6	709.9	706.1	702.3	698.5	694.8	691.0	687.2	683.5	679.7	672.1	664.4	656.6	648.8	632.7	616.0
15	717.4	713.7	710.0	706.3	702.6	698.9	695.3	691.6	687.9	684.3	676.9	669.5	662.0	654.5	639.2	623.4
20	721.0	717.3	713.7	710.1	706.5	702.9	699.4	695.8	692.2	688.7	681.5	674.3	667.1	659.9	645.2	630.1
25	724.4	720.9	717.3	713.8	710.3	706.8	703.3	699.8	696.3	692.8	685.9	678.9	672.0	665.0	650.8	636.4
30	727.8	724.3	720.8	717.3	713.9	710.5	707.0	703.6	700.2	696.8	690.1	683.3	676.5	669.7	656.1	642.2
35	731.0	727.6	724.2	720.8	717.4	714.0	710.7	707.3	704.0	700.7	694.1	687.5	680.9	674.3	661.1	647.7
40	734.2	730.8	727.4	724.1	720.8	717.4	714.2	710.9	707.6	704.4	697.9	691.5	685.0	678.6	665.8	652.9
45	737.2	733.9	730.6	727.3	724.0	720.8	717.5	714.3	711.1	707.9	701.6	695.3	689.0	682.8	670.3	657.8
50	740.2	736.9	733.6	730.4	727.2	724.0	720.8	717.7	714.5	711.4	705.2	699.0	692.9	686.8	674.6	662.4
55	743.1	739.8	736.6	733.4	730.2	727.1	724.0	720.9	717.8	714.7	708.6	702.6	696.6	690.6	678.7	666.8
60	745.9	742.7	739.5	736.4	733.2	730.1	727.1	724.0	721.0	718.0	712.0	706.0	700.1	694.3	682.6	671.1

Toluene																
	288.15	293.15	298.15	303.15	308.15	313.15	318.15	323.15	328.15	333.15	343.15	353.15	363.15	373.15	393.15	413.15
0.1	870.6	866.1	861.5	857.0	852.4	847.9	843.3	838.7	834.0	829.4	820.0	810.4	800.7	790.8		
1	871.3	866.8	862.2	857.7	853.2	848.6	844.0	839.4	834.8	830.2	820.8	811.4	801.7	791.9	771.5	749.9
5	874.2	869.8	865.3	860.8	856.4	851.9	847.4	842.9	838.4	833.9	824.7	815.5	806.1	796.5	776.9	756.2
10	877.8	873.4	869.0	864.6	860.3	855.9	851.5	847.1	842.7	838.3	829.4	820.4	811.3	802.1	783.2	763.4
15	881.2	876.9	872.6	868.3	864.0	859.7	855.4	851.1	846.8	842.5	833.8	825.1	816.2	807.3	789.1	770.2
20	884.5	880.3	876.1	871.9	867.6	863.4	859.2	855.0	850.8	846.5	838.1	829.5	821.0	812.3	794.6	776.5
25	887.8	883.6	879.5	875.3	871.2	867.0	862.9	858.7	854.6	850.5	842.2	833.8	825.5	817.0	799.9	782.4
30	891.0	886.8	882.7	878.7	874.6	870.5	866.4	862.4	858.3	854.2	846.1	838.0	829.8	821.6	805.0	788.0
35	894.0	890.0	885.9	881.9	877.9	873.9	869.9	865.9	861.9	857.9	849.9	842.0	834.0	825.9	809.7	793.3
40	897.0	893.0	889.1	885.1	881.1	877.2	873.2	869.3	865.4	861.5	853.6	845.8	838.0	830.1	814.3	798.3
45	900.0	896.0	892.1	888.2	884.3	880.4	876.5	872.6	868.8	864.9	857.2	849.5	841.8	834.2	818.7	803.2
50	902.9	898.9	895.1	891.2	887.3	883.5	879.7	875.8	872.0	868.2	860.7	853.1	845.6	838.1	823.0	807.8
55	905.7	901.8	897.9	894.1	890.3	886.5	882.7	879.0	875.2	871.5	864.0	856.6	849.2	841.8	827.0	812.2
60	908.4	904.6	900.8	897.0	893.2	889.5	885.8	882.0	878.3	874.7	867.3	860.0	852.7	845.5	831.0	816.4

Dichloromethane																
	288.15	293.15	298.15	303.15	308.15	313.15	318.15	323.15	328.15	333.15	343.15	353.15	363.15	373.15	393.15	413.15
0.1	1335.3	1326.8	1318.2	1309.5	1300.7	1291.8										
1	1336.3	1327.9	1319.3	1310.7	1301.9	1293.0	1284.0	1274.9	1265.6	1256.1	1236.6	1216.3	1194.8	1172.1	1121.4	1059.8
5	1340.9	1332.6	1324.2	1315.7	1307.2	1298.5	1289.7	1280.8	1271.7	1262.6	1243.7	1224.1	1203.5	1181.9	1134.4	1078.5
10	1346.4	1338.3	1330.1	1321.8	1313.5	1305.0	1296.5	1287.9	1279.1	1270.2	1252.1	1233.2	1213.7	1193.2	1148.9	1098.3
15	1351.7	1343.8	1335.8	1327.7	1319.5	1311.3	1303.0	1294.6	1286.1	1277.5	1259.9	1241.8	1223.1	1203.6	1161.9	1115.3
20	1356.9	1349.1	1341.2	1333.3	1325.4	1317.3	1309.2	1301.0	1292.8	1284.4	1267.4	1250.0	1231.9	1213.3	1173.8	1130.3
25	1361.9	1354.2	1346.5	1338.8	1331.0	1323.1	1315.2	1307.2	1299.2	1291.1	1274.5	1257.6	1240.3	1222.4	1184.7	1143.7
30	1366.7	1359.2	1351.6	1344.0	1336.4	1328.7	1321.0	1313.2	1305.3	1297.4	1281.3	1264.9	1248.1	1230.9	1194.8	1156.0
35	1371.4	1364.0	1356.6	1349.1	1341.7	1334.1	1326.5	1318.9	1311.2	1303.5	1287.9	1271.9	1255.6	1238.9	1204.2	1167.2
40	1376.0	1368.7	1361.4	1354.1	1346.7	1339.4	1331.9	1324.5	1316.9	1309.4	1294.1	1278.6	1262.7	1246.6	1213.1	1177.7
45	1380.5	1373.3	1366.1	1358.9	1351.7	1344.4	1337.1	1329.8	1322.5	1315.1	1300.1	1285.0	1269.5	1253.9	1221.5	1187.4
50	1384.8	1377.7	1370.7	1363.6	1356.5	1349.3	1342.2	1335.0	1327.8	1320.5	1305.9	1291.1	1276.1	1260.8	1229.4	1196.6
55	1389.0	1382.1	1375.1	1368.1	1361.1	1354.1	1347.1	1340.0	1332.9	1325.8	1311.5	1297.0	1282.3	1267.5	1236.9	1205.2

60	1393.2	1386.3	1379.4	1372.5	1365.7	1358.8	1351.8	1344.9	1337.9	1331.0	1316.9	1302.7	1288.4	1273.8	1244.1	1213.4
Ethanol																
	288.15	293.15	298.15	303.15	308.15	313.15	318.15	323.15	328.15	333.15	343.15	353.15	363.15	373.15	393.15	413.15
0.1	803.7	799.2	794.6	790.0	785.3	780.7	775.9	771.2	766.3	761.4	751.4					
1	804.2	799.6	795.1	790.5	785.9	781.2	776.5	771.7	766.9	762.1	752.1	741.9	731.2	720.2	696.5	669.8
5	806.2	801.8	797.3	792.8	788.2	783.6	779.0	774.3	769.6	764.8	755.1	745.1	734.7	724.0	701.2	675.8
10	808.7	804.3	799.9	795.5	791.0	786.5	782.0	777.4	772.8	768.1	758.6	748.9	738.9	728.6	706.7	682.7
15	811.2	806.9	802.5	798.1	793.8	789.3	784.9	780.4	775.9	771.3	762.1	752.6	742.9	732.9	711.8	689.0
20	813.6	809.3	805.0	800.7	796.4	792.1	787.7	783.3	778.9	774.4	765.4	756.1	746.7	737.0	716.7	694.9
25	815.9	811.7	807.5	803.3	799.0	794.7	790.4	786.1	781.8	777.4	768.5	759.5	750.3	740.9	721.2	700.3
30	818.2	814.0	809.9	805.7	801.5	797.3	793.1	788.9	784.6	780.3	771.6	762.8	753.8	744.6	725.6	705.4
35	820.4	816.3	812.2	808.1	804.0	799.8	795.7	791.5	787.3	783.1	774.6	765.9	757.1	748.2	729.7	710.2
40	822.6	818.5	814.5	810.4	806.4	802.3	798.2	794.1	790.0	785.8	777.5	769.0	760.4	751.6	733.6	714.8
45	824.7	820.7	816.7	812.7	808.7	804.7	800.7	796.6	792.5	788.5	780.2	771.9	763.5	755.0	737.4	719.1
50	826.8	822.8	818.9	814.9	811.0	807.0	803.0	799.1	795.1	791.0	783.0	774.8	766.5	758.2	741.0	723.2
55	828.8	824.9	821.0	817.1	813.2	809.3	805.4	801.4	797.5	793.5	785.6	777.6	769.5	761.3	744.5	727.1
60	830.8	827.0	823.1	819.3	815.4	811.5	807.7	803.8	799.9	796.0	788.2	780.3	772.3	764.2	747.8	730.9