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| **Supplementary 2** |
| **The initial data and predicted values for the external test set** |

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| --- | --- | --- | --- | --- | --- | --- | --- |
| Name | T, K | B12, cm3/mol | GBM | RF | SVM | PLS | DA |
| Chlorotrifluoromethane+Trichlorofluoromethane | 302.2 | -448.4 | -381.8 | -312.6 | -388.4 | -442.9 | In DA |
| Chlorotrifluoromethane+Trichlorofluoromethane | 302.2 | -427.5 | -381.8 | -312.6 | -388.4 | -442.9 | In DA |
| Chlorotrifluoromethane+Chlorodifluoromethane | 300.7 | -275.3 | -303.9 | -269.9 | -272.7 | -294.4 | In DA |
| Chlorotrifluoromethane+Chlorodifluoromethane | 300.7 | -265.9 | -303.9 | -269.9 | -272.7 | -294.4 | In DA |
| Chlorotrifluoromethane+Trifluoromethane | 300.3 | -163 | -224.7 | -261.2 | -204.9 | -216.1 | In DA |
| Chlorotrifluoromethane+Trifluoromethane | 300.31 | -170.4 | -224.7 | -261.2 | -204.9 | -216.1 | In DA |
| Dichlorodifluoromethane+Trichlorofluoromethane | 302.2 | -446.4 | -417.5 | -342.0 | -600.4 | -600.4 | In DA |
| Dichlorodifluoromethane+Trichlorofluoromethane | 302.2 | -432.2 | -417.5 | -342.0 | -600.4 | -600.4 | In DA |
| Dichlorodifluoromethane+Trifluoromethane | 300.5 | -297.7 | -304.1 | -271.6 | -264.3 | -285.4 | In DA |
| Dichlorodifluoromethane+Trifluoromethane | 300.5 | -300.7 | -304.1 | -271.6 | -264.3 | -285.4 | In DA |
| Dichlorodifluoromethane+Trifluoromethane | 300.5 | -293.8 | -304.1 | -271.6 | -264.3 | -285.4 | In DA |
| Trichlorofluoromethane+Trifluoromethane | 302.2 | -247.6 | -377.7 | -298.1 | -338.5 | -369.3 | In DA |
| Trichlorofluoromethane+Trifluoromethane | 302.2 | -239 | -377.7 | -298.1 | -338.5 | -369.3 | In DA |
| Tetrachloromethane+1-Propanol | 293.15 | -1600 | -1904.4 | -1310.7 | -1133.0 | -1258.9 | In DA |
| Tetrachloromethane+1-Propanol | 303.15 | -1500 | -1841.5 | -1267.4 | -1095.6 | -1217.3 | In DA |
| Tetrachloromethane+1-Propanol | 313.15 | -1350 | -1782.6 | -1226.8 | -1060.6 | -1178.4 | In DA |
| Tetrafluoromethane+Hexafluoroethane | 323.15 | -120 | -292.1 | -272.4 | -197.9 | -203.7 | In DA |
| Tetrafluoromethane+Hexafluoroethane | 373.15 | -70 | -252.9 | -235.9 | -171.4 | -176.3 | In DA |
| Tetrafluoromethane+Octafluoropropane | 323.15 | -179 | -478.3 | -464.0 | -369.7 | -300.5 | In DA |
| Tetrafluoromethane+Octafluoropropane | 373.15 | -113 | -414.1 | -401.8 | -320.1 | -260.2 | In DA |
| Tetrafluoromethane+Decafluorobutane | 323.15 | -224 | -524.4 | -607.8 | -597.2 | -425.3 | In DA |
| Tetrafluoromethane+Decafluorobutane | 373.15 | -141 | -454.0 | -526.2 | -517.0 | -368.2 | In DA |
| Tetrafluoromethane+Butane | 323.15 | -166 | -414.5 | -538.6 | -306.4 | -204.1 | In DA |
| Tetrafluoromethane+Dodecafluoropentane | 323.15 | -259 | -541.9 | -734.6 | -766.5 | -607.5 | In DA |
| Tetrafluoromethane+Dodecafluoropentane | 373.15 | -173 | -469.2 | -636.1 | -663.7 | -526.0 | In DA |
| Tetrafluoromethane+Tetradecafluorohexane | 323.15 | -277 | -569.5 | -824.3 | -810.6 | -859.7 | In DA |
| Tetrafluoromethane+Tetradecafluorohexane | 373.15 | -196 | -493.1 | -713.7 | -701.8 | -744.4 | In DA |
| Chlorodifluoromethane+Trifluoromethane | 300.3 | -261 | -115.4 | -266.5 | -323.5 | -241.7 | In DA |
| Chlorodifluoromethane+Trifluoromethane | 300.31 | -252.8 | -115.4 | -266.5 | -323.5 | -241.7 | In DA |
| Chlorodifluoromethane+1,1-Dichloro-2,2,2-trifluoroethane | 268.15 | -825 | -626.9 | -422.3 | -559.5 | -593.5 | In DA |
| Chlorodifluoromethane+1,1-Dichloro-2,2,2-trifluoroethane | 296.15 | -654 | -567.6 | -382.3 | -506.5 | -537.3 | In DA |
| Trichloromethane+Methane | 298.15 | -199 | -258.7 | -323.6 | -345.9 | -435.2 | In DA |
| Trichloromethane+Ethene | 298.15 | -373 | -348.8 | -355.2 | -329.8 | -499.0 | In DA |
| Trichloromethane+Methyl methanoate | 350.2 | -864 | -876.2 | -672.8 | -970.1 | -925.5 | In DA |
| Trichloromethane+Methyl methanoate | 368.2 | -723 | -833.3 | -639.9 | -922.6 | -880.2 | In DA |
| Trichloromethane+Diethylamine | 323.2 | -2063 | -1868.6 | -1326.1 | -986.4 | -1300.1 | In DA |
| Trichloromethane+Diethylamine | 336.7 | -1786 | -1793.5 | -1272.8 | -946.7 | -1247.9 | In DA |
| Trichloromethane+Hexane | 308.15 | -1230 | -1131.2 | -1045.7 | -992.4 | -1842.5 | In DA |
| Trichloromethane+Hexane | 326.2 | -1190 | -1068.5 | -987.7 | -937.4 | -1740.4 | In DA |
| Trichloromethane+Hexane | 352 | -960 | -990.1 | -915.2 | -868.6 | -1612.7 | In DA |
| Dichloromethane+Chloroethane | 303.2 | -590 | -241.2 | -512.0 | -573.7 | -632.5 | In DA |
| Dichloromethane+Chloroethane | 313.2 | -567 | -233.4 | -495.7 | -555.4 | -612.2 | In DA |
| Dichloromethane+Chloroethane | 333.2 | -469 | -219.4 | -465.9 | -522.0 | -575.4 | In DA |
| Difluoromethane+Pentafluoroethane | 338.15 | -225.2 | -282.1 | -283.3 | -343.2 | -207.7 | In DA |
| Difluoromethane+Pentafluoroethane | 353.15 | -199 | -270.1 | -271.3 | -328.6 | -198.9 | In DA |
| Difluoromethane+Pentafluoroethane | 373.15 | -171.2 | -255.6 | -256.7 | -310.9 | -188.2 | In DA |
| Difluoromethane+1,1,1,2-Tetrafluoroethane | 338.15 | -255.5 | -137.6 | -287.4 | -339.1 | -198.1 | In DA |
| Difluoromethane+1,1,1,2-Tetrafluoroethane | 353.15 | -227.6 | -131.7 | -275.2 | -324.7 | -189.7 | In DA |
| Difluoromethane+1,1,1,2-Tetrafluoroethane | 373.15 | -195.4 | -124.7 | -260.4 | -307.3 | -179.5 | In DA |
| Bromomethane+Chloromethane | 296 | -484.1 | -302.3 | -312.2 | -375.3 | -265.9 | Out of DA |
| Bromomethane+Chloromethane | 307.7 | -430.3 | -290.8 | -300.4 | -361.0 | -255.7 | Out of DA |
| Bromomethane+Chloromethane | 322.8 | -381.1 | -277.1 | -286.3 | -344.1 | -243.8 | Out of DA |
| Bromomethane+Bromoethane | 293.1 | -1047 | -338.3 | -409.2 | -326.3 | -198.2 | Out of DA |
| Bromomethane+Bromoethane | 313.1 | -881 | -316.7 | -319.2 | -305.4 | -185.5 | Out of DA |
| Bromomethane+Chloroethane | 313.2 | -436 | -137.3 | -351.2 | -346.2 | -295.8 | Out of DA |
| Bromomethane+Chloroethane | 333.2 | -397 | -129.1 | -330.1 | -325.4 | -278.0 | Out of DA |
| Bromomethane+Pentane | 313.1 | -765 | -410.1 | -353.4 | -381.3 | -240.7 | Out of DA |
| Nitromethane+Propanone | 318.15 | -3830 | -1256.5 | -1358.2 | -897.5 | -827.0 | Out of DA |
| Nitromethane+Propanone | 323.2 | -2679 | -1236.8 | -1337.0 | -883.5 | -814.1 | Out of DA |
| Nitromethane+Benzene | 323.2 | -1283 | -276.1 | -766.7 | -595.1 | -427.1 | Out of DA |
| Methane+Hexafluoroethane | 323.15 | -65 | -117.4 | -281.9 | -142.9 | -136.0 | In DA |
| Methane+Ethanol | 298.15 | -122 | -152.5 | -457.8 | -274.0 | -101.2 | In DA |
| Methane+Ethanol | 323.15 | -107 | -140.7 | -422.3 | -252.8 | -93.4 | In DA |
| Methane+Ethanol | 348.15 | -84 | -130.6 | -391.9 | -234.6 | -86.7 | In DA |
| Methane+Propene | 298.15 | -124.9 | -167.3 | -351.0 | -61.2 | -171.5 | In DA |
| Methane+Propene | 398.15 | -64.3 | -125.3 | -262.7 | -45.8 | -128.4 | In DA |
| Methane+Octafluorocyclobutane | 290 | -167.1 | -453.9 | -587.9 | -322.2 | -253.2 | In DA |
| Methane+Octafluorocyclobutane | 300 | -150.7 | -438.7 | -568.3 | -311.4 | -244.7 | In DA |
| Methane+Octafluorocyclobutane | 310 | -141.7 | -424.6 | -549.9 | -301.3 | -236.8 | In DA |
| Methane+Decafluorobutane | 323.15 | -128 | -583.8 | -603.4 | -366.8 | -278.1 | In DA |
| Methane+2-Methylpropane | 288.7 | -158.7 | -130.5 | -336.1 | -132.6 | -165.0 | In DA |
| Methane+1-Butanol | 298.15 | -160 | -525.5 | -734.3 | -679.8 | -154.5 | In DA |
| Methane+Diethyl ether | 298.15 | -161 | -586.9 | -882.7 | -794.4 | -352.3 | In DA |
| Methane+Dodecafluoropentane | 373.15 | -95 | -486.2 | -554.4 | -454.1 | -350.8 | In DA |
| Methane+2-Methylbutane | 288.7 | -220 | -166.0 | -342.0 | -183.8 | -197.4 | In DA |
| Methane+2-Methylbutane | 298.2 | -199 | -160.7 | -331.1 | -177.9 | -191.1 | In DA |
| Methane+2-Methylbutane | 323.2 | -123 | -148.2 | -305.5 | -164.1 | -176.3 | In DA |
| Methane+2,5-Hexanedione | 503.15 | -48 | -514.9 | -599.5 | -524.7 | -1068.6 | In DA |
| Methane+2-Methylpentane | 298.2 | -317 | -239.8 | -369.9 | -200.3 | -218.9 | In DA |
| Methane+2-Methylpentane | 323.2 | -144 | -221.2 | -341.2 | -184.8 | -201.9 | In DA |
| Methane+2,2-Dimethylbutane | 298.3 | -216 | -204.6 | -406.2 | -193.4 | -216.5 | In DA |
| Methane+2,2-Dimethylbutane | 323.2 | -154 | -188.8 | -374.9 | -178.5 | -199.8 | In DA |
| Methane+Toluene | 242.6 | -446 | -345.3 | -629.7 | -327.9 | -345.3 | In DA |
| Methane+Toluene | 262 | -355 | -319.7 | -583.0 | -303.6 | -319.7 | In DA |
| Methane+Toluene | 282.7 | -277 | -296.2 | -540.2 | -281.3 | -296.3 | In DA |
| Methane+Nonane | 246.2 | -620 | -339.8 | -515.0 | -336.9 | -261.3 | In DA |
| Methane+Nonane | 261.7 | -476 | -319.7 | -484.4 | -316.9 | -245.8 | In DA |
| Methane+Nonane | 273.1 | -464 | -306.3 | -464.2 | -303.7 | -235.5 | In DA |
| Methane+1-Methylnaphthalene | 348.15 | -205 | -331.6 | -470.9 | -293.9 | -260.8 | In DA |
| Methane+1-Methylnaphthalene | 398.15 | -146 | -289.9 | -411.7 | -256.9 | -228.0 | In DA |
| Methane+1-Methylnaphthalene | 448.15 | -91 | -257.5 | -365.7 | -228.2 | -202.5 | In DA |
| Methane+2,6,10,15,19,23-Hexamethyltetracosane | 503.2 | -48 | -351.4 | -382.1 | -521.6 | -514.7 | In DA |
| Methane+2,6,10,15,19,23-Hexamethyltetracosane | 545.2 | 43 | -324.3 | -352.7 | -481.3 | -475.0 | In DA |
| Hexafluoroethane+Ethane | 323.15 | -145 | -585.6 | -432.8 | -234.6 | -191.4 | In DA |
| Hexafluoroethane+Ethane | 373.15 | -90 | -507.1 | -374.7 | -203.1 | -165.7 | In DA |
| Hexafluoroethane+Octafluoropropane | 323.15 | -299 | -523.0 | -554.7 | -655.5 | -429.9 | In DA |
| Hexafluoroethane+Octafluoropropane | 373.15 | -192 | -452.8 | -480.3 | -567.6 | -372.2 | In DA |
| Hexafluoroethane+Decafluorobutane | 323.15 | -388 | -561.8 | -700.6 | -792.3 | -616.4 | In DA |
| Hexafluoroethane+Decafluorobutane | 373.15 | -254 | -486.4 | -606.6 | -686.0 | -533.7 | In DA |
| Hexafluoroethane+Dodecafluoropentane | 323.15 | -482 | -593.1 | -789.7 | -812.2 | -880.4 | In DA |
| Hexafluoroethane+Dodecafluoropentane | 373.15 | -314 | -513.5 | -683.8 | -703.2 | -762.2 | In DA |
| Hexafluoroethane+Tetradecafluorohexane | 323.15 | -536 | -615.1 | -888.1 | -812.6 | -1233.8 | In DA |
| Hexafluoroethane+Tetradecafluorohexane | 373.15 | -354 | -532.6 | -768.9 | -703.6 | -1068.2 | In DA |
| 1,1,1,2-Tetrafluoroethane+1,1-Difluoroethane | 353.15 | -330.1 | -645.6 | -433.2 | -335.4 | -255.0 | In DA |
| 1,1,1,2-Tetrafluoroethane+1,1-Difluoroethane | 373.15 | -285 | -610.9 | -409.9 | -317.4 | -241.3 | In DA |
| Acetonitrile+Cyclohexane | 349 | -850 | -462.2 | -390.2 | -314.3 | -241.3 | In DA |
| Ethene+Ethane | 298.15 | -157.3 | -194.9 | -325.9 | -100.4 | -179.5 | In DA |
| Ethene+Ethanol | 298.15 | -243 | -156.9 | -512.4 | -238.0 | -201.9 | In DA |
| Ethene+Propene | 298.15 | -220.9 | -167.0 | -386.0 | -399.3 | -250.9 | In DA |
| Ethene+Propene | 398.15 | -117.8 | -125.0 | -288.9 | -298.9 | -187.8 | In DA |
| Ethene+Benzene | 323.15 | -282 | -342.9 | -454.8 | -318.0 | -280.5 | In DA |
| Ethene+1-Methylnaphthalene | 348.15 | -571 | -546.6 | -544.9 | -478.0 | -322.6 | In DA |
| Ethene+1-Methylnaphthalene | 398.15 | -381 | -477.9 | -476.4 | -417.9 | -282.1 | In DA |
| Ethene+1-Methylnaphthalene | 448.15 | -235 | -424.5 | -423.2 | -371.2 | -250.6 | In DA |
| Ethene+Bicyclohexyl | 323.15 | -607 | -981.4 | -717.2 | -812.2 | -480.3 | In DA |
| Ethene+Bicyclohexyl | 383.15 | -432 | -827.6 | -604.8 | -684.9 | -405.0 | In DA |
| Ethene+Bicyclohexyl | 443.15 | -257 | -715.4 | -522.8 | -592.0 | -350.1 | In DA |
| Ethene+Diphenylmethane | 338.15 | -645 | -719.5 | -609.4 | -590.7 | -398.7 | In DA |
| Ethene+Diphenylmethane | 393.15 | -416 | -618.7 | -524.1 | -508.0 | -342.8 | In DA |
| Ethene+Diphenylmethane | 448.15 | -293 | -542.7 | -459.7 | -445.6 | -300.7 | In DA |
| Ethene+Hexadecane | 348.15 | -735 | -976.3 | -669.9 | -754.2 | -677.9 | In DA |
| Ethene+Hexadecane | 398.15 | -524 | -853.5 | -585.7 | -659.3 | -592.7 | In DA |
| Ethene+Hexadecane | 448.15 | -357 | -758.2 | -520.2 | -585.7 | -526.5 | In DA |
| Bromoethane+Diethyl ether | 293.1 | -1356 | -928.8 | -801.2 | -917.1 | -510.5 | Out of DA |
| Bromoethane+Diethyl ether | 313.1 | -1160 | -869.4 | -750.0 | -858.4 | -477.9 | Out of DA |
| Bromoethane+Pentane | 313.1 | -945 | -554.1 | -396.9 | -388.5 | -318.1 | Out of DA |
| Chloroethane+1-Chloropropane | 303.2 | -803 | -696.8 | -564.4 | -602.0 | -794.0 | In DA |
| Chloroethane+1-Chloropropane | 313.2 | -774 | -674.6 | -546.3 | -582.7 | -768.6 | In DA |
| Chloroethane+1-Chloropropane | 333.2 | -683 | -634.0 | -513.5 | -547.7 | -722.4 | In DA |
| Chloroethane+2-Chloro-2-methylpropane | 313.2 | -712 | -607.5 | -664.3 | -802.1 | -1027.3 | In DA |
| Chloroethane+2-Chloro-2-methylpropane | 333.2 | -591 | -570.9 | -624.3 | -753.9 | -965.5 | In DA |
| Ethane+Ethanol | 298.15 | -276 | -408.3 | -558.2 | -311.1 | -150.2 | In DA |
| Ethane+Ethanol | 323.15 | -200 | -376.7 | -514.9 | -287.0 | -138.5 | In DA |
| Ethane+Ethanol | 348.15 | -190 | -349.6 | -477.9 | -266.4 | -128.6 | In DA |
| Ethane+1-Butanol | 298.15 | -375 | -766.9 | -665.7 | -658.1 | -231.7 | In DA |
| Ethane+Octane | 403.2 | -354 | -575.2 | -458.1 | -398.7 | -314.0 | In DA |
| Ethane+Octane | 413.2 | -331 | -561.3 | -447.0 | -389.1 | -306.4 | In DA |
| Ethane+1-Methylnaphthalene | 348.15 | -672 | -747.2 | -644.4 | -506.8 | -486.9 | In DA |
| Ethane+1-Methylnaphthalene | 398.15 | -462 | -653.2 | -563.4 | -443.1 | -425.7 | In DA |
| Ethane+1-Methylnaphthalene | 448.15 | -322 | -580.3 | -500.5 | -393.6 | -378.1 | In DA |
| Ethane+Bicyclohexyl | 323.15 | -777 | -982.7 | -724.2 | -882.4 | -575.6 | In DA |
| Ethane+Bicyclohexyl | 383.15 | -545 | -828.6 | -610.6 | -744.1 | -485.3 | In DA |
| Ethane+Bicyclohexyl | 443.15 | -326 | -716.3 | -527.9 | -643.2 | -419.6 | In DA |
| Ethane+Diphenylmethane | 338.15 | -734 | -791.5 | -739.7 | -580.7 | -614.3 | In DA |
| Ethane+Diphenylmethane | 393.15 | -481 | -680.6 | -636.1 | -499.3 | -528.2 | In DA |
| Ethane+Diphenylmethane | 448.15 | -343 | -597.0 | -557.9 | -438.0 | -463.3 | In DA |
| Ethane+Hexadecane | 348.15 | -928 | -912.0 | -669.3 | -718.4 | -756.8 | In DA |
| Ethane+Hexadecane | 398.15 | -645 | -797.4 | -585.1 | -628.1 | -661.7 | In DA |
| Ethane+Hexadecane | 448.15 | -434 | -708.3 | -519.8 | -557.9 | -587.8 | In DA |
| Ethane+2,6,10,15,19,23-Hexamethyltetracosane | 503.15 | -293 | -630.8 | -477.9 | -521.6 | -1223.4 | In DA |
| Ethane+2,6,10,15,19,23-Hexamethyltetracosane | 545.15 | -165 | -582.2 | -441.1 | -481.4 | -1129.1 | In DA |
| Ethanol+Pentylamine | 363.15 | -1112 | -671.9 | -526.7 | -709.0 | -220.7 | In DA |
| Ethanol+Pentylamine | 363.15 | -1138 | -671.9 | -632.0 | -709.0 | -220.7 | In DA |
| Propene+Butane | 288.7 | -529.6 | -478.1 | -498.9 | -398.2 | -359.5 | In DA |
| Propene+2-Methylpropane | 288.7 | -510.5 | -478.1 | -492.4 | -397.9 | -357.3 | In DA |
| Propanone+Hexane | 352.95 | -865 | -686.1 | -820.5 | -976.9 | -833.4 | In DA |
| Propane+Heptane | 383.2 | -537 | -605.3 | -544.0 | -581.2 | -387.8 | In DA |
| Propane+Heptane | 403.2 | -490 | -575.2 | -517.0 | -552.3 | -368.6 | In DA |
| Propane+Heptane | 413.2 | -448 | -561.3 | -504.5 | -538.9 | -359.6 | In DA |
| Propane+Octane | 403.2 | -541 | -629.5 | -597.8 | -696.1 | -429.8 | In DA |
| Propane+Octane | 410.2 | -512 | -618.7 | -587.6 | -684.2 | -422.5 | In DA |
| Propane+Octane | 413.2 | -508 | -614.2 | -583.3 | -679.3 | -419.4 | In DA |
| Decafluorobutane+Dodecafluoropentane | 323.15 | -939 | -629.5 | -939.4 | -812.6 | -1679.6 | In DA |
| Decafluorobutane+Tetradecafluorohexane | 373.15 | -733 | -553.8 | -857.2 | -703.6 | -1993.6 | In DA |
| Decafluorobutane+Hexane | 323.15 | -830 | -985.7 | -939.5 | -764.7 | -561.2 | In DA |
| Butanone+Benzene | 353.15 | -762 | -1028.4 | -898.0 | -965.9 | -884.4 | In DA |
| Butane+Octane | 403.2 | -735 | -773.7 | -650.6 | -949.3 | -533.3 | In DA |
| Butane+Octane | 410.5 | -714 | -759.9 | -639.0 | -932.4 | -523.8 | In DA |
| Butane+Octane | 413.2 | -700 | -754.9 | -634.8 | -926.3 | -520.3 | In DA |
| Diethylamine+Cyclohexane | 349 | -990 | -780.9 | -714.4 | -672.7 | -434.2 | In DA |
| Pentane+Tetradecafluorohexane | 308 | -1184 | -1111.0 | -1312.8 | -849.1 | -1236.4 | In DA |
| Pentane+Tetradecafluorohexane | 338.1 | -895 | -1012.0 | -1195.7 | -773.4 | -1126.2 | In DA |
| Pentane+Tetradecafluorohexane | 384.2 | -643 | -890.4 | -1052.1 | -680.4 | -990.9 | In DA |
| Pentane+Heptane | 393.2 | -871 | -813.2 | -712.0 | -1035.1 | -574.9 | In DA |
| Pentane+Heptane | 403.2 | -823 | -793.0 | -694.3 | -1009.4 | -560.6 | In DA |
| Pentane+Heptane | 413.2 | -774 | -773.8 | -677.5 | -984.9 | -547.0 | In DA |
| Pentane+Octane | 403.2 | -953 | -793.0 | -670.3 | -1020.6 | -634.7 | In DA |
| Pentane+Octane | 413.2 | -895 | -773.8 | -654.1 | -995.9 | -619.3 | In DA |
| Tetradecafluorohexane+Hexane | 323.15 | -1297 | -1106.7 | -1230.2 | -812.2 | -1147.9 | In DA |
| Tetradecafluorohexane+Hexane | 373.15 | -871 | -958.2 | -1065.1 | -703.2 | -993.8 | In DA |
| Bromobenzene+Benzene | 303.2 | -2166 | -791.5 | -912.8 | -977.9 | -642.2 | Out of DA |
| Chlorobenzene+Benzene | 303.2 | -2025 | -1105.8 | -957.8 | -1001.9 | -942.7 | In DA |
| Benzene+Octane | 478.2 | -666 | -664.6 | -660.9 | -716.1 | -723.6 | In DA |
| Benzene+Octane | 488.2 | -642 | -651.0 | -647.3 | -701.4 | -708.8 | In DA |
| Benzene+Octane | 498.2 | -595 | -637.9 | -634.3 | -687.3 | -694.5 | In DA |
| Benzene+1,7,7-Trimethylbicyclo[2.2.1]-2-heptanone | 353.15 | -825 | -985.0 | -1055.8 | -743.5 | -2098.5 | In DA |
| Hexane+Octane | 403.2 | -1173 | -795.6 | -659.1 | -913.3 | -727.8 | In DA |
| Hexane+Octane | 413.2 | -1105 | -776.4 | -643.1 | -891.2 | -710.1 | In DA |