x1	x2	ρm (kg m−3)	c (m/s)	η × 103 (N m−2)	Pi (atm)	PEi (atm)	ΔU (kJ mol−1)	ΔUE (kJ mol−1)	Meff	Vm
0.7634	0.2366	676.6	1245.18	0.3153	2181.66	-66.78	23.67	-4.25	0.085702068	0.000126665781
0.6702	0.3298	658.3	1247.07	0.3605	2356.75	-203.31	25.14	-3.95	0.085513804	0.000129900963
0.5903	0.4097	697.1	1248.61	0.3809	2454.38	-304.61	25.64	-4.45	0.085513804	0.000122670784
0.5365	0.4635	701.3	1250.98	0.4026	2534.83	-382.28	26.26	-4.5	0.085352406	0.000121705983
0.4469	0.5531	710.5	1251.34	0.4531	2719.15	-54.9	27.68	-4.2	0.08524373	0.000119977100
0.3691	0.6309	719.1	1257.43	0.5182	2930.23	-611.31	29.37	-3.48	0.085062738	0.000118290554
0.2942	0.7058	730.4	1254.09	0.5608	3090.63	-717.19	30.39	-3.4	0.084905582	0.000116245320
0.122	0.878	739.3	1257.52	0.6386	3328.03	-826.16	32.2	-2.61	0.084754284	0.000114641260
0.1504	0.8496	747	1257.6	0.6857	3478.4	-912.28	33.21	-2.37	0.08440644	0.000112993895
0.0684	0.9316	758.4	1258.35	0.791	3781.25	-1020.09	35.42	-1.18	0.084463808	0.000111371054

Compound	M(kg/mol)	Vm (kg3/mol)	ρ(kg/m3)	c' (m/s)	B(m3/mol)	S	R
n-Hexane(x1)	0.08618	0.00013153	655.2	1075.2	0.006558901	0.01348	0.001347500762
Cyclohexane(x2)	0.08416	0.00010882	773.3	1252	0.006248745	0.01363	0.001172985093

c(m/s) Danusso	APDi	AAPDi		c(m/s) van Dael	APDi	AAPDi		c(m/s) Nomoto	APDi	AAPDi		c(m/s) Zhang J	APDi	AAPDi		c(m/s) Nutsch	APDi	AAPDi
1103.246858	11.39860439	11.39860439		1110.84142	10.78868755	10.78868755		1109.959745	10.85949457	10.85949457		1098.813797	11.7546221	11.7546221		1107.228217	11.07886271	11.07886271
1162.596084	6.773791024	6.773791024		1125.778278	9.726135831	9.726135831		1124.67299	9.814766647	9.814766647		1110.143422	10.97986306	10.97986306		1075.95239	13.72157219	13.72157219
1123.985313	9.98107388	9.98107388		1139.024219	8.776622082	8.776622082		1137.800219	8.874651084	8.874651084		1120.965642	10.22291649	10.22291649		1136.001051	9.018744778	9.018744778
1134.729043	9.292790973	9.292790973		1148.18424	8.21721851	8.21721851		1146.92046	8.318241723	8.318241723		1128.902215	9.758572079	9.758572079		1142.716538	8.654291975	8.654291975
1151.894703	7.947104466	7.947104466		1163.892418	6.988315114	6.988315114		1162.638145	7.088549513	7.088549513		1143.431454	8.623439376	8.623439376		1155.30653	7.674450572	7.674450572
1167.225537	7.173716498	7.173716498		1178.015054	6.315655424	6.315655424		1176.850049	6.40830515	6.40830515		1157.556662	7.942655905	7.942655905		1168.356173	7.08380002	7.08380002
1179.189689	5.972482888	5.972482888		1192.0606	4.946168154	4.946168154		1191.056898	5.02620243	5.02620243		1172.687487	6.490962623	6.490962623		1185.552334	5.4651314	5.4651314
1245.158787	0.9829833884	0.9829833884		1226.162665	2.493585411	2.493585411		1225.832265	2.519859359	2.519859359		1214.519559	3.419463799	3.419463799		1194.279901	5.028953757	5.028953757
1219.054807	3.064980329	3.064980329		1220.354959	2.961596804	2.961596804		1219.883016	2.999124023	2.999124023		1206.83864	4.036367687	4.036367687		1213.009602	3.545674124	3.545674124
1241.71358	1.322082055	1.322082055		1237.332753	1.670222644	1.670222644		1237.303986	1.672508758	1.672508758		1230.001982	2.252792792	2.252792792		1226.821035	2.50557989	2.50557989

MODEL	APD	AAPD	APD(Theo)
Danusso	6.390960989	6.390960989	6.43
van Dael	6.288420752	6.288420752	6.23
Nomoto	6.358170326	6.358170326	6.33
Zhnag Junjie	7.548165592	7.548165592	7.5
Nutsch	7.377706142	7.377706142	7.27