

Certificate of Composition
 Part #: SD-053-011 and SD-053-016
 PIANO Blend with Oxygenates

ASTM D6730 with Helium Carrier

Summary by Group

<u>Group</u>	<u>%Wgt</u>	<u>%Vol</u>	<u>%Mol</u>	<u>Avg MW</u>	<u>Avg SG</u>
Paraffin	10.773	12.215	10.275	8.840	0.081
I-Paraffins	26.014	28.783	21.726	21.347	0.195
Aromatics	28.732	24.560	21.518	23.577	0.216
<i>Mono-Aromatics</i>	27.134	23.330	20.579	22.266	0.204
<i>Naphthalenes</i>	0.783	0.566	0.455	0.643	0.006
<i>Indanes</i>	0.656	0.539	0.391	0.538	0.005
<i>Indenes</i>	0.156	0.123	0.091	0.128	0.001
Naphthenes	3.793	3.734	3.194	3.112	0.028
<i>Mono-Naphthenes</i>	3.732	3.678	3.152	3.062	0.028
<i>Di/Bicyclo-Naphthenes</i>	0.023	0.019	0.014	0.019	0.000
Olefins	9.451	10.364	9.491	7.755	0.071
<i>n-Olefins</i>	2.953	3.377	3.321	2.423	0.022
<i>Iso-Olefins</i>	5.237	5.738	5.043	4.297	0.039
<i>Naphtheno-Olefins</i>	1.022	1.004	0.924	0.839	0.008
<i>Di-Olefins</i>	0.239	0.244	0.203	0.196	0.002
Oxygenates	20.733	19.883	33.521	17.013	0.156
Unidentified	0.504	0.461	0.276	0.414	0.004
Plus	0.000	0.000	0.000	0.000	0.000
	100.000	100.000	100.000	82.058	0.750

Certificate of Composition
 Part #: SD-053-011 and SD-053-016
 PIANO Blend with Oxygenates

ASTM D6730 with Helium Carrier

Component List

<u>Pk#</u>	<u>Time</u>	<u>RI</u>	<u>C#</u>	<u>Component</u>	<u>%Wgt</u>	<u>%Vol</u>	<u>%Mol</u>	<u>Area</u>
1	7.268	300.00	3	Propane	0.033	0.042	0.061	22.123
2	8.330	354.33	4	i-Butane	0.364	0.491	0.515	247.198
3	8.697	371.49	1	Methanol	5.440	5.155	13.934	1170.401
4	9.010	385.60	4	Isobutene	0.105	0.133	0.153	73.475
5	9.045	387.14	4	Butene-1	0.265	0.318	0.387	185.889
6	9.341	400.00	4	n-Butane	2.760	3.452	3.897	1872.056
7	9.670	407.47	?	Unidentified	0.029	0.026	0.016	17.767
8	9.746	409.17	4	t-Butene-2	0.151	0.189	0.221	106.214
9	9.846	411.38	5	2,2-Dimethylpropane	0.063	0.080	0.072	42.970
10	10.356	422.30	4	c-Butene-2	0.158	0.193	0.231	111.137
11	11.671	448.13	2	Ethanol	5.199	4.939	9.260	2222.980
12	11.993	454.01	5	3-Methylbutene-1	0.383	0.463	0.449	269.384
13	13.060	472.43	5	i-Pentane	3.853	4.667	4.382	2631.254
14	14.063	488.43	5	Pentene-1	0.225	0.263	0.263	158.085
15	14.220	490.82	3	i-Propanol	0.776	0.742	1.059	381.502
16	14.546	495.73	5	2-Methylbutene-1	0.482	0.557	0.564	338.880
17	14.836	500.00	5	n-Pentane	1.838	2.202	2.090	1254.948
18	15.166	505.17	5	2-Methyl-1,3-Butadiene	0.012	0.013	0.014	8.698
19	15.433	509.26	5	t-Pentene-2	0.602	0.703	0.704	422.913
20	15.798	514.76	6	3,3-Dimethylbutene-1	0.008	0.009	0.008	5.584
21	15.978	517.42	5	c-Pentene-2	0.327	0.374	0.383	229.658
22	16.053	518.52	4	t-Butanol	1.193	1.148	1.321	631.660
23	16.321	522.41	5	2-Methylbutene-2	0.881	1.002	1.031	619.170
24	16.515	525.18	5	1t,3-Pentadiene	0.016	0.018	0.019	11.656
25	17.223	535.05	5	1,3-Cyclopentadiene	0.005	0.006	0.006	3.771
26	17.380	537.17	6	2,2-Dimethylbutane	0.207	0.240	0.197	142.135
27	18.671	554.02	5	Cyclopentene	0.108	0.105	0.131	78.390
28	18.860	556.37	3	n-Propanol	0.791	0.739	1.079	388.782
29	19.026	558.44	6	4-Methylpentene-1	0.096	0.108	0.094	67.443
30	19.100	559.34	6	3-Methylpentene-1	0.138	0.156	0.134	96.776
31	19.475	563.91	5	Cyclopentane	0.191	0.194	0.223	134.070
32	19.663	566.17	6	2,3-Dimethylbutane	0.629	0.713	0.598	430.949
33	19.750	567.21	5	Methyl-t-butyl ether	1.210	1.226	1.126	582.376
34	19.803	567.84	6	2,3-Dimethylbutene-1	0.062	0.068	0.061	43.699
35	19.955	569.63	6	2-Pentene ,4-methyl	0.041	0.031	0.040	28.771
36	20.058	570.85	6	2-Methylpentane	2.213	2.543	2.107	1517.575
37	20.208	572.60	6	4-Methyl-t-pentene-2	0.118	0.131	0.115	82.566
38	21.198	583.83	6	3-Methylpentane	1.501	1.696	1.429	1029.125
39	21.661	588.91	6	2-Methylpentene-1	0.193	0.211	0.188	135.346
40	21.750	589.87	6	Hexene-1	0.099	0.110	0.096	69.429
41	22.015	592.71	4	2-Butanol	1.025	0.950	1.136	542.960
42	22.708	600.00	6	n-Hexane	1.557	1.772	1.482	1067.306
43	22.941	602.55	6	t-Hexene-3	0.138	0.151	0.134	96.699
44	23.011	603.31	6	c-Hexene-3	0.051	0.056	0.050	35.970
45	23.166	604.98	6	t-Hexene-2	0.273	0.300	0.266	191.664

Certificate of Composition
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ASTM D6730 with Helium Carrier

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46	23.373	607.19	6	2-Pentene, 4-methyl-, (Z)-	0.304	0.330	0.296	213.491
47	23.460	608.12	6	3-Methylcyclopentene	0.070	0.069	0.070	50.487
48	23.623	609.85	6	3-Methyl-c-pentene-2	0.194	0.209	0.189	136.331
49	23.750	611.18	6	4-methylcyclopentene	0.037	0.036	0.037	26.299
50	23.991	613.70	6	c-Hexene-2	0.154	0.167	0.150	108.395
51	24.225	616.11	?	Unidentified	0.002	0.002	0.001	1.246
52	24.528	619.22	4	iso-Butanol	0.546	0.511	0.605	289.145
53	24.548	619.42	6	tert-Butyl-Ethyl-Ether	2.138	2.167	1.718	1029.445
54	24.588	619.82	6	2-Pentene, 3-methyl-	0.207	0.227	0.203	145.656
55	24.708	621.04	?	Unidentified	0.013	0.012	0.007	8.209
56	24.885	622.81	7	2,2-Dimethylpentane	0.113	0.126	0.092	77.691
57	25.088	624.84	6	Methylcyclopentane	0.890	0.892	0.868	625.106
58	25.508	628.98	7	2,4-Dimethylpentane	0.671	0.749	0.550	462.047
59	25.570	629.58	6	2-Pentene, 4-methyl-	0.055	0.060	0.053	38.455
60	25.738	631.22	7	2,3,3-Trimethylbutene-1	0.007	0.007	0.006	4.632
61	25.960	633.35	7	2,2,3-Trimethylbutane	0.040	0.044	0.033	27.685
62	26.093	634.63	6	1,3-Pentadiene, 2-methyl-, (E)-	0.004	0.004	0.004	2.689
63	26.318	636.77	6	1,3,5-Hexatriene, (Z)-	0.007	0.007	0.007	5.016
64	26.686	640.23	7	3,4-Dimethylpentene-1	0.005	0.006	0.004	3.761
65	26.803	641.32	7	2-Pentyne, 4,4-dimethyl-	0.011	0.011	0.009	7.793
66	27.183	644.83	7	2,4-Dimethylpentene-1	0.023	0.024	0.019	15.973
67	27.323	646.11	6	Cyclopentene, 4-methyl-	0.014	0.014	0.014	10.141
68	27.443	647.20	6	1-Methylcyclopentene	0.257	0.248	0.257	184.928
69	27.613	648.74	6	Benzene	1.711	1.461	1.799	1294.605
70	27.831	650.71	7	2-Methyl-c-hexene-3	0.012	0.013	0.010	8.337
71	28.039	652.56	4	n-Butanol	1.128	1.045	1.249	599.508
72	28.131	653.38	7	3,3-Dimethylpentane	0.084	0.091	0.069	58.161
73	28.339	655.22	7	1-Pentene, 2,3-dimethyl-	0.026	0.027	0.021	17.971
74	28.503	656.65	6	Cyclohexane	0.178	0.172	0.174	125.095
75	28.791	659.16	7	2-Methyl-t-hexene-3	0.049	0.053	0.041	34.537
76	28.939	660.44	?	Unidentified	0.005	0.004	0.003	2.963
77	29.004	661.00	7	1,4-Hexadiene, 2-methyl-	0.013	0.013	0.011	9.173
78	29.153	662.27	7	1,4-Pentadiene, 3,3-dimethyl-	0.033	0.033	0.028	23.631
79	29.428	664.61	7	2-Hexene, 4-methyl-, (E)-	0.093	0.099	0.078	65.341
80	29.591	665.99	7	2-Methylhexane	1.242	1.374	1.017	855.220
81	29.769	667.49	7	2,3-Dimethylpentane	1.113	1.201	0.911	765.884
82	30.103	670.26	7	Dimethyl pentadiene	0.017	0.019	0.015	12.135
83	30.188	670.96	6	TAME	1.287	1.261	1.035	619.804
84	30.424	672.91	6	Cyclohexene	0.037	0.034	0.037	26.566
85	30.639	674.67	7	3-Methylhexane	1.328	1.451	1.088	914.400
86	31.099	678.38	7	1,5-Heptadiene	0.037	0.037	0.032	26.465
87	31.434	681.05	7	1t,3-Dimethylcyclopentane	0.237	0.238	0.198	166.800
88	31.798	683.91	7	1c,3-Dimethylcyclopentane	0.206	0.208	0.172	144.958
89	31.966	685.23	7	3-Ethylpentane	0.184	0.198	0.151	126.672
90	32.168	686.80	7	1t,2-Dimethylcyclopentane	0.142	0.141	0.118	99.479

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ASTM D6730 with Helium Carrier

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91	32.334	688.09	8	2,2,4-Trimethylpentane	3.832	4.157	2.753	2643.548
92	32.934	692.67	7	Heptene-1	0.003	0.003	0.002	2.040
93	33.184	694.55	7	3-Methyl-c-hexene-3	0.060	0.062	0.050	41.889
94	33.681	698.25	7	2-Methylhexene-1	0.122	0.131	0.102	85.591
95	33.723	698.56	7	2-pentyne,4,4-dimethyl	0.077	0.083	0.066	54.422
96	33.918	700.00	7	n-Heptane	0.939	1.031	0.769	646.674
97	33.998	700.48	7	Cyclobutane, (1-methylethylidene)-	0.041	0.040	0.035	29.740
98	34.244	701.95	7	3-Methyl-c-hexene-2	0.241	0.254	0.202	169.414
99	34.406	702.91	7	2-Methyl-2-hexene	0.089	0.094	0.075	62.639
100	34.659	704.40	7	3-Methyl-t-hexene-3	0.102	0.110	0.085	71.625
101	34.899	705.81	7	t-Heptene-2	0.055	0.058	0.046	38.617
102	35.373	708.55	7	3-Ethylpentene-2	0.116	0.120	0.097	81.463
103	35.413	708.78	7	Cyclopentene, 1,5-dimethyl-	0.071	0.070	0.060	50.605
104	35.919	711.67	7	3-Methyl-t-hexene-2	0.069	0.072	0.057	48.172
105	35.966	711.94	7	2-Pentene, 3,4-dimethyl-, (E)-	0.041	0.042	0.035	28.955
106	36.171	713.09	7	2,3-Dimethylpentene-2	0.009	0.009	0.008	6.392
107	36.594	715.46	7	3-Ethylcyclopentene	0.014	0.013	0.012	9.844
108	36.869	716.99	7	1c,2-Dimethylcyclopentane	0.140	0.144	0.117	98.645
109	37.003	717.72	7	Methylcyclohexane	0.303	0.295	0.253	212.773
110	37.361	719.68	8	Butane, 2,2,3,3-tetramethyl-	0.039	0.042	0.028	27.032
111	37.476	720.31	8	1,1,3-Trimethylcyclopentane	0.047	0.047	0.035	33.233
112	38.098	723.66	8	2,2-Dimethylhexane	0.012	0.013	0.008	8.089
113	38.484	725.71	8	1,3-Dimethyl-1-cyclohexene	0.009	0.009	0.007	6.636
114	39.013	728.49	7	Ethylcyclopentane	0.103	0.101	0.086	72.164
115	39.143	729.17	8	2,5-Dimethylhexane	0.501	0.542	0.360	345.514
116	39.348	730.23	9	2,2,3,4-Tetramethylpentane	0.078	0.079	0.050	54.053
117	39.496	731.00	8	2,4-Dimethylhexane	0.720	0.772	0.517	496.725
118	39.638	731.72	?	Unidentified	0.013	0.012	0.007	8.205
119	40.169	734.44	7	Cyclohexene, 4-methyl-	0.004	0.003	0.003	2.780
120	40.568	736.45	8	Cyclopentane, 1,2,4-trimethyl-, (1à,2à0.098	0.096	0.096	0.072	69.080
121	40.794	737.58	8	3,3-Dimethylhexane	0.041	0.043	0.030	28.331
122	41.249	739.84	7	Cyclopentane, 1,3-bis(methylene)-	0.005	0.005	0.005	4.015
123	41.798	742.53	8	2-Hexene, 2,4-dimethyl-	0.041	0.042	0.030	28.632
124	42.013	743.57	8	1t,2c,3-Trimethylcyclopentane	0.056	0.055	0.041	39.505
125	42.539	746.11	8	2,3,4-Trimethylpentane	1.289	1.345	0.926	888.845
126	42.768	747.20	7	5-Methyl-c-hexene-2	0.152	0.162	0.127	106.981
127	43.083	748.69	7	1-Ethylcyclopentene	0.040	0.041	0.034	28.790
128	43.399	750.18	8	2,3,3-Trimethylpentane	0.797	0.824	0.573	549.859
129	43.659	751.40	7	Toluene	5.473	4.737	4.874	4095.123
130	43.991	752.94	8	5,5-Dimethyl-1,3-hexadiene	0.023	0.025	0.017	16.537
131	44.293	754.33	8	3-Ethyl-3-Hexene	0.043	0.045	0.031	29.920
132	44.889	757.05	8	2,3-Dimethylhexane	0.597	0.629	0.429	411.757
133	45.151	758.24	8	2-Methyl-3-ethylpentane	0.049	0.052	0.035	33.889
134	45.378	759.26	8	2-Hexene, 2,5-dimethyl-	0.044	0.047	0.032	30.866
135	45.821	761.23	8	3-Methyl-3-ethylpentane	0.057	0.060	0.041	39.159

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ASTM D6730 with Helium Carrier

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136	46.267	763.21	8	2-Methylheptane	0.508	0.546	0.365	350.508
137	46.619	764.75	8	4-Methylheptane	0.198	0.211	0.143	136.863
138	46.886	765.91	9	Hexane, 2,3,3-trimethyl-	0.065	0.068	0.042	45.114
139	47.009	766.45	8	3,4-Dimethylhexane	0.068	0.071	0.049	47.242
140	47.602	769.00	7	3-Hexyne, 2-methyl-	0.049	0.048	0.042	35.483
141	47.689	769.37	8	1,3-dimethyl-t-cyclohexane	0.034	0.033	0.025	24.055
142	48.077	771.02	8	3-Methylheptane	0.523	0.556	0.376	360.966
143	48.366	772.24	8	3-Ethylhexane	0.133	0.140	0.095	91.549
144	48.436	772.53	8	1,3-Dimethylcyclohexane,c&t	0.061	0.058	0.045	42.748
145	48.667	773.50	8	1t,4-Dimethylcyclohexane	0.055	0.054	0.040	38.409
146	48.932	774.61	8	1,3-dimethyl-c-cyclohexane	0.053	0.052	0.039	37.174
147	49.407	776.58	8	Heptane, 4-methylene-	0.009	0.009	0.006	6.101
148	50.349	780.42	8	1,1-Dimethylcyclohexane	0.005	0.005	0.004	3.499
149	50.854	782.45	9	2,2,4-Trimethylhexane	0.371	0.376	0.237	256.203
150	51.299	784.23	8	3c-Ethylmethylcyclopentane	0.128	0.125	0.094	90.053
151	51.879	786.51	8	3t-Ethylmethylcyclopentane	0.079	0.077	0.058	55.272
152	52.221	787.85	8	1c,4-Dimethylcyclohexane	0.072	0.069	0.052	50.407
153	52.904	790.50	8	3-Heptene, 4-methyl-	0.035	0.034	0.026	24.682
154	53.522	792.86	8	1,4-Hexadiene, 2,3-dimethyl-	0.076	0.075	0.057	54.659
155	53.839	794.06	8	cis-1-Butyl-2-methylcyclopropane	0.038	0.037	0.028	26.819
156	54.684	797.23	8	3-Octene, (Z)-	0.120	0.118	0.088	84.271
157	55.181	799.07	8	2-Heptene, 3-methyl-	0.018	0.018	0.013	12.469
158	55.432	800.00	8	n-Octane	0.604	0.645	0.434	416.636
159	55.739	801.18	8	Cyclohexane, 1,4-dimethyl-	0.109	0.107	0.080	76.466
160	56.646	804.63	9	2-Hexene, 2,5,5-trimethyl-	0.039	0.038	0.025	27.504
161	56.891	805.56	8	2,4-Octadiene	0.011	0.011	0.008	7.751
162	57.276	807.00	8	Cyclopentene, 1,2,3-trimethyl-	0.096	0.096	0.071	68.573
163	57.701	808.58	8	2-Hexene, 3,5-dimethyl-	0.068	0.066	0.049	47.455
164	58.516	811.58	10	Cyclopentane, (1-methylbutyl)-	0.017	0.017	0.010	12.097
165	59.272	814.33	8	t-Octene-3	0.031	0.032	0.023	21.747
166	59.762	816.10	8	Cyclohexene, 1-ethyl-	0.012	0.012	0.009	8.925
167	60.641	819.22	9	2,3,5-Trimethylhexane	0.062	0.065	0.040	42.896
168	61.276	821.45	8	Cyclopentane, 1-ethyl-2-methyl-	0.039	0.038	0.028	27.346
169	61.866	823.50	9	3-Octyne, 6-methyl-	0.030	0.031	0.020	21.454
170	62.729	826.46	9	2,4-Dimethylheptane	0.016	0.017	0.010	10.994
171	63.371	828.64	9	C9-Isoparaffin-y	0.044	0.047	0.028	30.648
172	63.371	828.64	8	C9-Naphtho Olefin-1	0.044	0.045	0.029	30.648
173	64.307	831.78	8	1,4-Pentadiene, 2,3,4-trimethyl-	0.004	0.004	0.003	2.947
174	65.134	834.52	9	n-propyl Cyclohexane	0.021	0.020	0.014	14.827
175	65.227	834.82	8	Ethylcyclohexane	0.079	0.076	0.058	55.758
176	65.874	836.93	9	2,6-Dimethylheptane	0.056	0.060	0.036	38.978
177	66.494	838.94	9	1-Ethyl-2-Methylcyclopentene	0.015	0.015	0.009	10.173
178	67.110	840.91	8	C8 Naph-Olefin - 6	0.031	0.032	0.023	21.856
179	67.632	842.57	9	2,3-Dimethyl-3-heptene(1)	0.009	0.010	0.006	6.523
180	68.120	844.11	9	3,5-Dimethyl-3-heptene	0.012	0.013	0.008	8.367

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Component List

Pk#	Time	RI	C#	Component	%Wgt	%Vol	%Mol	Area
181	68.459	845.17	9	2,5-Dimethylheptane	0.127	0.134	0.081	87.964
182	68.925	846.62	9	Heptane, 3,5-dimethyl-	0.030	0.032	0.019	20.818
183	69.354	847.95	9	1,1,4-Trimethylcyclohexane	0.010	0.009	0.006	6.817
184	69.849	849.47	9	1,1,3-Trimethylcyclohexane	0.023	0.022	0.015	16.150
185	70.452	851.31	8	Cyclopentene, 1-propyl-	0.023	0.024	0.017	16.414
186	70.855	852.53	7	2,3-Dimethyl-1,4-pentadiene	0.006	0.007	0.005	4.613
187	71.649	854.92	9	4-Nonene	0.014	0.016	0.009	10.121
188	72.495	857.43	8	Ethylbenzene	1.485	1.285	1.147	1102.509
189	73.032	859.01	9	1c,2t,4t-Trimethylcyclohexane	0.043	0.041	0.028	29.990
190	73.787	861.21	9	3-Heptene, 4-ethyl-	0.032	0.031	0.021	22.783
191	74.285	862.65	9	Hexane, 3-ethyl-2-methyl-	0.001	0.001	0.001	0.849
192	74.437	863.09	9	Cyclohexane, 1,3,5-trimethyl-, (1à,3à,5à)	0.009	0.009	0.006	6.440
193	75.544	866.25	8	m-Xylene	3.161	2.745	2.443	2347.098
194	75.874	867.18	8	p-Xylene	1.369	1.193	1.058	1016.575
195	76.614	869.26	9	3,5-Dimethylheptane	0.013	0.013	0.008	8.844
196	76.905	870.07	8	1-Heptene, 5-methyl-	0.025	0.028	0.019	17.749
197	77.315	871.21	9	1-Methyl-2-propyl-cyclopentan	0.012	0.011	0.008	8.505
198	77.680	872.21	9	4-Ethylheptane	0.029	0.031	0.019	20.320
199	77.770	872.46	10	Cyclopentane, 1-methyl-3-(2-methyl-2-propenyl)-	0.011	0.012	0.006	7.538
200	78.274	873.84	9	2-Heptene, 2,6-dimethyl-	0.010	0.011	0.006	6.775
201	78.637	874.83	9	4-Methyloctane	0.138	0.144	0.088	95.407
202	78.957	875.70	9	2-Methyloctane	0.195	0.206	0.125	135.122
203	79.432	876.99	9	C9 - NaphOlefin - 2	0.027	0.028	0.018	19.097
204	79.539	877.27	10	3-Hexene, 3-ethyl-2,5-dimethyl-	0.005	0.005	0.003	3.413
205	80.507	879.86	9	Heptane, 3-ethyl-	0.034	0.035	0.022	23.653
206	80.910	880.93	9	3-Methyloctane	0.207	0.215	0.132	142.878
207	81.249	881.83	10	3-Heptyne, 5-ethyl-5-methyl-	0.007	0.008	0.004	5.286
208	81.635	882.84	9	2,6-Dimethylheptene-1	0.035	0.037	0.023	24.915
209	82.279	884.52	8	o-Xylene	1.881	1.604	1.454	1397.158
210	82.927	886.20	?	Unidentified	0.011	0.010	0.006	6.609
211	83.167	886.82	10	2,2,4-trimethylheptane	0.046	0.048	0.027	31.920
212	83.803	888.45	9	Cyclopentane, 1-methyl-2-propyl-	0.030	0.025	0.019	20.789
213	84.087	889.17	9	C9 MonoNaph - 7	0.056	0.052	0.036	39.043
214	84.923	891.29	10	Octane, 3,3-dimethyl-	0.082	0.085	0.047	56.877
215	85.252	892.12	9	1à,2à,3à,4à-Tetramethylcyclopentane	0.009	0.009	0.006	6.229
216	85.532	892.82	9	t-Nonene-3	0.012	0.013	0.008	8.301
217	85.775	893.43	9	c-Nonene-3	0.021	0.023	0.014	14.972
218	85.977	893.93	10	Cyclohexane, 1-methyl-4-(1-methylethyl)-trans-	0.010	0.009	0.006	6.833
219	86.875	896.16	9	trans-4-Nonene	0.041	0.045	0.027	28.895
220	87.373	897.38	10	C10 - IsoOlefin - 1	0.022	0.024	0.013	15.589
221	87.568	897.86	9	cis-3-Nonene	0.014	0.016	0.009	9.992
222	87.817	898.46	9	2-Methyl-2-octene	0.029	0.031	0.019	20.614
223	88.038	899.00	9	1-ethyl-4-t-methylcyclohexane	0.041	0.038	0.027	28.676
224	88.450	900.00	9	n-Nonane	0.494	0.517	0.316	341.418
225	88.903	902.51	9	1,1-Methylethylcyclohexane	0.042	0.039	0.027	29.638

Certificate of Composition
 Part #: SD-053-011 and SD-053-016
 PIANO Blend with Oxygenates

ASTM D6730 with Helium Carrier

Component List

Pk#	Time	RI	C#	Component	%Wgt	%Vol	%Mol	Area
226	89.248	904.41	10	2-Nonene, 3-methyl-, (E)-	0.015	0.014	0.009	10.510
227	89.515	905.87	9	Cyclohexane, 1-ethyl-4-methyl-, trans	0.026	0.026	0.017	18.437
228	90.828	913.02	9	i-Propylbenzene	0.141	0.122	0.096	103.735
229	91.130	914.65	9	Cyclohexene,3-propyl-	0.008	0.008	0.005	5.866
230	91.247	915.28	9	1H-Indene, octahydro-, cis-	0.033	0.031	0.022	23.462
231	91.857	918.54	8	3-Hexene, 2,2-dimethyl-, (E)-	0.009	0.009	0.007	6.273
232	92.360	921.23	10	Heptane, 2,3,5-trimethyl-	0.036	0.037	0.021	24.692
233	92.908	924.13	10	Heptane, 2,4,6-trimethyl-	0.034	0.035	0.020	23.559
234	93.093	925.11	9	Cyclohexene,1-propyl-	0.007	0.005	0.004	4.810
235	93.208	925.71	10	1,6-Octadiene, 2,5-dimethyl-, (E)-	0.005	0.005	0.003	3.507
236	94.115	930.46	8	Cyclopropane, pentamethyl-	0.012	0.012	0.008	8.138
237	94.287	931.36	?	Unidentified	0.020	0.019	0.011	12.553
238	94.460	932.26	10	t-2,2,5,5-Tetramethylhexene-3	0.052	0.056	0.031	36.653
239	95.323	936.72	10	2,3,6-trimethylheptane	0.059	0.044	0.034	41.019
240	95.557	937.92	10	2,7-dimethyloctane(1)	0.022	0.023	0.013	15.328
241	96.018	940.29	?	Unidentified	0.008	0.007	0.004	4.810
242	96.335	941.90	10	2,6-Dimethyloctane	0.051	0.053	0.030	35.654
243	96.462	942.55	9	Hexane, 3,3,4-trimethyl-	0.005	0.005	0.003	3.466
244	96.885	944.70	10	3-Octene, 4-ethyl-	0.017	0.017	0.010	11.785
245	97.290	946.74	9	n-Propylbenzene	0.500	0.436	0.342	369.098
246	97.533	947.97	10	3-Methyl-5-ethylheptane	0.017	0.018	0.010	11.987
247	97.790	949.26	8	2-Heptene, 4-methyl-, (E)-	0.017	0.018	0.013	12.119
248	98.307	951.84	10	Cyclopentane, 2-isopropyl-1,3-dimeth	0.015	0.016	0.009	10.797
249	98.685	953.73	9	1-Octene, 3-methyl-	0.004	0.004	0.002	2.450
250	98.897	954.78	9	1-Methyl-3-ethylbenzene	1.413	1.227	0.965	1042.697
251	99.263	956.60	9	1-Methyl-4-ethylbenzene	0.617	0.538	0.422	455.549
252	99.783	959.16	9	1,5-Heptadiene, 2,6-dimethyl-	0.004	0.004	0.002	2.520
253	100.217	961.29	10	Octane, 3,4-dimethyl-	0.006	0.006	0.003	3.939
254	100.403	962.20	9	1,3,5-Trimethylbenzene	0.609	0.532	0.416	449.528
255	100.632	963.31	?	Unidentified	0.027	0.024	0.015	16.278
256	101.021	965.21	10	Trans-1,4-diethylcyclohexane	0.004	0.004	0.002	2.938
257	101.213	966.14	9	2,3,3-Trimethyl-1-hexene	0.005	0.005	0.003	3.327
258	101.485	967.46	10	5-Methylnonane	0.039	0.040	0.022	26.914
259	101.806	969.01	10	4-Methylnonane	0.043	0.044	0.025	29.803
260	101.891	969.42	11	2,2,6-Trimethyloctane	0.238	0.246	0.125	164.870
261	102.210	970.95	9	1-Methyl-2-ethylbenzene	0.682	0.581	0.466	503.267
262	102.875	974.13	10	3-Ethyloctane	0.016	0.016	0.009	10.961
263	103.131	975.36	?	Unidentified	0.004	0.004	0.002	2.662
264	103.473	976.98	10	3-Methylnonane	0.107	0.109	0.062	73.959
265	103.668	977.90	10	4-Octene, 2,6-dimethyl-, [S-(Z)]-	0.011	0.012	0.006	7.574
266	104.175	980.30	11	Heptane, 2,2,3,5-tetramethyl-	0.077	0.078	0.040	53.041
267	104.610	982.34	11	C11-Isoparaffin-2	0.010	0.010	0.005	6.742
268	104.980	984.07	9	1,2,4-Trimethylbenzene	2.337	1.973	1.596	1724.594
269	105.406	986.06	?	Unidentified	0.008	0.007	0.004	4.952
270	105.588	986.91	10	1-Octene, 2,6-dimethyl-	0.040	0.042	0.023	27.870

Certificate of Composition
Part #: SD-053-011 and SD-053-016
PIANO Blend with Oxygenates

ASTM D6730 with Helium Carrier

Component List

Pk#	Time	RI	C#	Component	%Wgt	%Vol	%Mol	Area
271	105.745	987.64	11	Octane, 2,2,6-trimethyl-	0.027	0.027	0.014	18.401
272	106.038	988.99	9	Cyclopentane, 1-methyl-3-(1-methyl-	0.013	0.012	0.009	9.216
273	106.476	991.02	9	C9 - MonoNaph - 10	0.016	0.015	0.010	11.126
274	106.855	992.76	9	Cyclopentane, 1,1,3,4-tetramethyl-, tr-	0.003	0.003	0.002	2.385
275	107.036	993.59	10	trans-4-Decene	0.013	0.013	0.008	9.092
276	107.210	994.39	11	Octane, 2,3,3-trimethyl-	0.045	0.046	0.024	31.038
277	107.571	996.04	10	3-Heptene, 4-propyl-	0.008	0.009	0.005	5.873
278	107.703	996.64	10	trans-3-Decene	0.085	0.086	0.049	58.828
279	108.153	998.69	?	Unidentified	0.078	0.071	0.043	47.922
280	108.443	1000.00	10	n-Decane	0.559	0.574	0.322	386.921
281	108.750	1002.22	11	Octane, 6-ethyl-2-methyl-	0.017	0.017	0.009	11.825
282	108.921	1003.45	?	Unidentified	0.013	0.012	0.007	8.038
283	109.006	1004.07	10	C10 - IsoParaffin - 10(1)	0.006	0.006	0.003	4.196
284	109.455	1007.29	12	4-Octene, 2,2,3,7-tetramethyl-, [S-(E)]	0.001	0.001	0.001	0.804
285	109.636	1008.59	9	1,2,3-Trimethylbenzene	0.598	0.502	0.408	441.139
286	109.960	1010.90	10	1-Methyl-3-i-propylbenzene	0.109	0.095	0.067	80.097
287	110.455	1014.42	10	1-Methyl-4-i-propylbenzene	0.045	0.039	0.027	32.963
288	110.878	1017.43	11	Octane, 2,6,6-trimethyl-	0.018	0.018	0.009	12.445
289	111.038	1018.56	11	C11 IsoParaffin - 5	0.006	0.006	0.003	4.459
290	111.235	1019.95	11	C11 IsoParaffin - 6	0.009	0.010	0.005	6.571
291	111.448	1021.45	9	Benzene, cyclopropyl-	0.226	0.181	0.157	169.915
292	111.653	1022.89	?	Unidentified	0.007	0.006	0.004	4.338
293	111.876	1024.46	?	Unidentified	0.028	0.026	0.015	17.299
294	112.323	1027.59	9	Indene	0.016	0.012	0.011	12.159
295	112.463	1028.56	?	Unidentified	0.033	0.030	0.018	20.450
296	112.838	1031.18	11	2,5,6-Trimethyloctane	0.092	0.093	0.048	63.724
297	113.120	1033.13	11	C11-Isoparaffin-8	0.027	0.028	0.014	18.963
298	113.201	1033.70	10	n-ButylCyclohexane	0.010	0.009	0.006	7.061
299	113.711	1037.23	10	Cyclopentane, (2-methylbutyl)-	0.003	0.002	0.001	1.760
300	113.870	1038.32	12	Heptane, 5-ethyl-2,2,3-trimethyl-	0.044	0.044	0.021	30.530
301	114.128	1040.10	12	Undecane, 2-methyl-	0.014	0.014	0.007	9.416
302	114.241	1040.88	10	1,3-Diethylbenzene	0.172	0.150	0.105	126.178
303	114.475	1042.48	11	Octane, 5-ethyl-2-methyl-	0.039	0.039	0.021	27.054
304	114.631	1043.55	10	1-Methyl-3-n-propylbenzene	0.439	0.383	0.268	322.151
305	115.068	1046.53	11	Nonane, 3,7-dimethyl-	0.006	0.006	0.003	4.207
306	115.195	1047.40	10	1-Methyl-4-n-propylbenzene	0.257	0.225	0.157	188.786
307	115.360	1048.52	10	n-Butylbenzene	0.136	0.118	0.083	99.596
308	115.663	1050.58	10	1,3-Dimethyl-5-ethylbenzene	0.343	0.293	0.210	251.802
309	116.015	1052.96	10	1,2-Diethylbenzene	0.048	0.041	0.029	35.099
310	116.630	1057.11	10	t-Decahydronaphthalene	0.016	0.014	0.010	11.505
311	116.801	1058.27	11	C11-Isoparaffin-11	0.009	0.009	0.005	6.019
312	116.918	1059.05	10	1-Methyl-2-n-propylbenzene	0.183	0.157	0.112	134.162
313	117.378	1062.13	11	Octane, 2,3,7-trimethyl-	0.105	0.106	0.055	72.748
314	117.866	1065.39	11	Decane, 4-methyl-	0.039	0.040	0.021	27.359
315	118.175	1067.44	11	2-Octene, 2,3,7-trimethyl-	0.006	0.006	0.003	3.915

Certificate of Composition
 Part #: SD-053-011 and SD-053-016
 PIANO Blend with Oxygenates

ASTM D6730 with Helium Carrier

Component List

Pk#	Time	RI	C#	Component	%Wgt	%Vol	%Mol	Area
316	118.336	1068.51	11	Decane, 2-methyl-	0.018	0.019	0.010	12.559
317	118.413	1069.02	10	1,4-Dimethyl-2-ethylbenzene	0.308	0.264	0.189	226.358
318	118.665	1070.69	10	1,3-Dimethyl-4-ethylbenzene	0.356	0.305	0.218	261.221
319	119.266	1074.65	11	Decane, 3-methyl-	0.043	0.046	0.022	29.583
320	119.524	1076.35	10	1,2-Dimethyl-4-ethylbenzene	0.547	0.469	0.334	401.293
321	119.998	1079.45	10	Indan, 1-methyl-	0.009	0.007	0.006	6.966
322	120.394	1082.04	11	1-Methyl-4-t-butylbenzene	0.092	0.081	0.051	67.314
323	120.721	1084.17	11	4-Octene, 2,3,6-trimethyl-	0.013	0.012	0.007	8.783
324	120.993	1085.93	?	Unidentified	0.007	0.006	0.004	4.283
325	121.293	1087.88	?	Unidentified	0.004	0.004	0.002	2.595
326	121.554	1089.57	10	Cyclopentane, 1,2-dimethyl-3-(1-methyl-2-propyl)-	0.010	0.009	0.006	7.146
327	121.749	1090.83	12	Undecane, 4-methyl-	0.022	0.022	0.011	15.157
328	122.064	1092.85	11	1-Ethyl-3-i-propylbenzene	0.049	0.041	0.027	35.559
329	122.336	1094.60	10	1,2-Dimethyl-3-ethylbenzene	0.153	0.128	0.093	112.102
330	122.914	1098.30	12	C12_I-Paraffins(1)	0.018	0.018	0.009	12.443
331	123.181	1100.00	11	n-Undecane	0.406	0.412	0.213	281.590
332	123.289	1100.93	11	Benzene, (1-ethylpropyl)-	0.005	0.004	0.003	3.412
333	123.444	1102.25	?	Unidentified	0.015	0.014	0.008	9.374
334	123.781	1105.13	12	Benzene, 2,4-dimethyl-1-(1-methylpropyl)-	0.013	0.011	0.006	9.189
335	123.953	1106.59	10	1,2,4,5-Tetramethylbenzene	0.225	0.190	0.138	165.186
336	124.426	1110.61	10	1-Methyl-1-n-butylbenzene	0.343	0.290	0.210	250.521
337	124.808	1113.85	11	Benzene, (3-methylbutyl)-	0.008	0.007	0.004	5.855
338	125.321	1118.18	11	1H-Indene,2,3-dihydro-2,2-dimethyl-	0.015	0.012	0.008	11.216
339	125.674	1121.15	?	Unidentified	0.011	0.010	0.006	6.722
340	125.896	1123.01	11	Nonane, 4,5-dimethyl-	0.003	0.003	0.001	1.781
341	126.258	1126.04	12	Decane, 5,6-dimethyl-	0.004	0.004	0.002	2.674
342	126.416	1127.36	10	C1-Indane - 1	0.008	0.007	0.005	6.018
343	126.623	1129.08	12	Benzene, 1-ethyl-4-(2-methylpropyl)-	0.030	0.025	0.015	21.938
344	126.681	1129.57	10	4-Methylindan	0.173	0.146	0.107	128.829
345	126.904	1131.43	?	Unidentified	0.014	0.012	0.007	8.294
346	127.299	1134.71	11	Benzene, 1,3-diethyl-5-methyl-	0.048	0.040	0.026	34.891
347	127.458	1136.02	?	Unidentified	0.015	0.013	0.008	8.928
348	127.654	1137.65	11	Benzene, 1-(1,1-dimethylethyl)-3-methyl-	0.068	0.057	0.038	49.786
349	127.701	1138.03	10	1H-Indene, 1-methyl-	0.027	0.023	0.017	20.410
350	128.009	1140.58	10	2-Methylindan(1)	0.175	0.147	0.108	130.149
351	128.356	1143.43	?	Unidentified	0.014	0.012	0.007	8.329
352	128.516	1144.75	10	1,3-Dimethyl-2-ethylbenzene	0.191	0.161	0.117	140.525
353	129.001	1148.73	?	Unidentified	0.005	0.005	0.003	3.129
354	129.119	1149.69	11	Benzene, 1,4-dimethyl-2-(1-methylethyl)-	0.014	0.012	0.008	10.605
355	129.329	1151.41	11	Benzene, (1-methylbutyl)-	0.052	0.044	0.029	37.810
356	129.376	1151.79	10	Benzene, 4-ethenyl-1,2-dimethyl-	0.011	0.009	0.007	8.167
357	129.711	1154.52	11	1,4-diethyl-2-methylbenzene	0.046	0.038	0.025	33.301
358	129.826	1155.45	11	Benzene, 1-ethyl-3-(1-methylethyl)-	0.033	0.028	0.018	24.051
359	130.176	1158.30	10	Tetralin	0.007	0.005	0.004	5.219
360	130.229	1158.73	10	Heptane, 3-ethyl-2-methyl-	0.010	0.010	0.006	6.604

Certificate of Composition
 Part #: SD-053-011 and SD-053-016
 PIANO Blend with Oxygenates

ASTM D6730 with Helium Carrier

Component List

Pk#	Time	RI	C#	Component	%Wgt	%Vol	%Mol	Area
361	130.274	1159.09	11	Benzene, (1,1-dimethylpropyl)-	0.040	0.034	0.022	29.457
362	130.499	1160.91	11	2,4-diethyl-1-methylbenzene	0.049	0.042	0.027	36.167
363	130.781	1163.19	?	Unidentified	0.017	0.016	0.010	10.666
364	131.009	1165.03	12	1t-M-2-(4-MP)cyclopentane	0.003	0.003	0.002	2.284
365	131.271	1167.14	13	Undecane, 2,7-dimethyl-	0.012	0.012	0.005	8.278
366	131.341	1167.70	11	1-methyl-4-(1-methylpropyl)be	0.079	0.067	0.044	57.749
367	131.759	1171.06	10	Naphthalene	0.249	0.163	0.160	191.642
368	132.099	1173.78	?	Unidentified	0.031	0.028	0.017	18.992
369	132.346	1175.74	11	1H-Indene, 2,3-dihydro-1,3-dimethyl-	0.030	0.024	0.017	22.499
370	132.779	1179.19	10	1,2,3,5-Tetramethylbenzene	0.005	0.004	0.003	3.421
371	132.871	1179.92	11	4,7-Dimethyl Indane	0.064	0.050	0.036	48.352
372	133.081	1181.59	11	1,1-Dimethyl Indane	0.031	0.024	0.017	22.902
373	133.538	1185.21	12	1t-Butyl-4-ethylbenzene	0.030	0.025	0.015	21.911
374	133.598	1185.68	12	Dimethyl Indane - 2	0.017	0.013	0.010	12.683
375	134.159	1190.11	12	1,3-Di-n-propylbenzene	0.112	0.094	0.056	81.278
376	134.378	1191.82	11	Benzene, 1-ethyl-2,4,5-trimethyl-	0.046	0.039	0.025	33.446
377	134.654	1193.99	12	4-Octene, 2,3,6,7-tetramethyl-	0.002	0.002	0.001	1.499
378	134.886	1195.81	12	1,1,3-Trimethyl Indane	0.002	0.002	0.001	1.536
379	135.423	1200.00	12	n-Dodecane	0.491	0.493	0.237	341.045
380	135.496	1200.71	12	Benzene, (3,3-dimethylbutyl)-	0.013	0.011	0.006	9.262
381	135.651	1202.20	11	1-ethyl-2,4,5-trimethylbenzen	0.006	0.005	0.003	4.503
382	136.078	1206.30	12	1H-Indene, 2,3-dihydro-1,1,3-trimethy	0.002	0.001	0.001	1.235
383	136.136	1206.86	12	Benzene, (1,3-dimethylbutyl)-	0.000	0.000	0.000	3.545
384	136.543	1210.75	11	Benzene, 2,4-dimethyl-1-(1-methyleth	0.014	0.013	0.008	10.599
385	136.819	1213.39	?	Unidentified	0.005	0.004	0.003	2.888
386	137.233	1217.33	11	C11 - Aromatic - 13	0.016	0.014	0.009	11.717
387	137.398	1218.89	12	1,3,5-trimethyl-2-propylbenze	0.018	0.015	0.009	12.773
388	137.606	1220.87	?	Unidentified	0.003	0.003	0.002	1.839
389	137.884	1223.51	12	Ethyl Tetralin -1	0.001	0.001	0.001	1.089
390	138.009	1224.69	12	Decane, 3,7-dimethyl-	0.002	0.003	0.001	1.715
391	138.069	1225.26	11	2-Ethyl-2,3-dihydro-1H-indene	0.022	0.017	0.012	16.514
392	138.317	1227.60	11	1H-Indene, 1-ethyl-2,3-dihydro-	0.031	0.024	0.017	23.152
393	138.581	1230.09	?	Unidentified	0.009	0.009	0.005	5.708
394	138.631	1230.56	12	1H-Indene, 2,3-dihydro-1,1,4-trimethy	0.004	0.003	0.002	2.812
395	138.854	1232.66	12	1-Methyl-4-n-pentylbenzene	0.014	0.012	0.007	10.192
396	139.124	1235.19	?	Unidentified	0.002	0.002	0.001	1.507
397	139.374	1237.54	12	Benzene, 1,4-dimethyl-2-(2-methylprc	0.014	0.011	0.007	9.878
398	139.524	1238.94	12	C12 - Aromatic - 5	0.006	0.005	0.003	4.496
399	139.596	1239.61	12	1H-Indene, 2,3-dihydro-1,1,5-trimethy	0.002	0.001	0.001	1.305
400	140.002	1243.41	12	Benzene, (1-ethyl-1-methylpropyl)-	0.009	0.008	0.005	6.718
401	140.084	1244.17	11	4,7-DimethylIndane	0.047	0.037	0.027	35.591
402	140.204	1245.28	?	Unidentified	0.014	0.013	0.008	8.742
403	140.476	1247.81	12	Benzene, (1,1,2-trimethylpropyl)-	0.006	0.005	0.003	4.575
404	140.727	1250.15	12	Benzene, (2-ethylbutyl)-	0.004	0.003	0.002	2.817
405	140.876	1251.52	?	Unidentified	0.003	0.003	0.002	2.057

Certificate of Composition
Part #: SD-053-011 and SD-053-016
PIANO Blend with Oxygenates

ASTM D6730 with Helium Carrier

Component List

Pk#	Time	RI	C#	Component	%Wgt	%Vol	%Mol	Area
406	141.204	1254.56	12	Benzene, (2-methylpentyl)-	0.028	0.022	0.014	20.144
407	141.496	1257.25	12	2,3-Dimethyldecane	0.005	0.005	0.003	3.743
408	141.606	1258.27	11	Diimethyl Indene - 2	0.035	0.027	0.020	26.171
409	141.861	1260.61	?	Unidentified	0.004	0.003	0.002	2.295
410	142.014	1262.02	11	1H-Indene, 2,3-dihydro-4,6-dimethyl-	0.018	0.014	0.010	13.300
411	142.086	1262.68	11	1H-Indene, 2,3-dihydro-5,6-dimethyl-	0.003	0.002	0.002	2.231
412	142.492	1266.41	13	Decane, 2,3,8-trimethyl-	0.014	0.014	0.006	9.525
413	142.546	1266.90	12	Naphthalene, 5-ethyl-1,2,3,4-tetrahyd	0.002	0.002	0.001	1.682
414	142.762	1268.88	12	Benzene, 1-(1-methylethenyl)-4-(1-methyl)	0.011	0.009	0.005	7.889
415	142.939	1270.50	?	Unidentified	0.011	0.010	0.006	6.780
416	143.226	1273.11	12	C12-Aromatic-9	0.013	0.011	0.006	9.179
417	143.311	1273.89	12	Benzene, 1-(1-methylethenyl)-2-(1-methyl)	0.004	0.004	0.002	3.172
418	143.524	1275.83	12	Trimethyl Indane - 1	0.003	0.003	0.002	2.445
419	143.607	1276.58	11	Pentamethylbenzene	0.060	0.045	0.033	43.496
420	144.216	1282.10	12	Trimethyl Indane - 4	0.007	0.006	0.004	5.596
421	144.626	1285.81	11	1-Methylnaphthalene	0.216	0.160	0.125	164.629
422	144.956	1288.78	12	Trimethyl Indane - 6	0.015	0.012	0.008	11.276
423	145.234	1291.28	12	Naphthalene, 1,2,3,4-tetrahydro-5,6-dimethyl-	0.009	0.007	0.005	6.826
424	146.207	1300.00	13	n-Tridecane	0.404	0.400	0.180	280.328
425	146.347	1301.47	11	2-Methylnaphthalene	0.106	0.079	0.061	80.530
426	146.856	1306.80	12	Naphthalene, 1,2,3,4-tetrahydro-1,8-dimethyl-	0.003	0.002	0.001	1.959
427	147.721	1315.83	12	Naphthalene, 1,2,3,4-tetrahydro-1,1-dimethyl-	0.013	0.010	0.007	9.452
428	148.057	1319.33	12	1H-Indene, 2,3-dihydro-4-propyl-	0.006	0.004	0.003	4.174
429	148.241	1321.23	12	1H-Indene, 2,3-dihydro-1,5,7-trimethyl-	0.002	0.001	0.001	1.179
430	148.426	1323.15	12	Naphthalene, 1-ethyl-1,2,3,4-tetrahydro-	0.003	0.002	0.001	2.144
431	148.624	1325.20	13	Undecane, 5-ethyl-	0.005	0.005	0.002	3.564
432	148.987	1328.96	?	Unidentified	0.002	0.002	0.001	1.134
433	149.592	1335.19	13	C13-Isoparaffin-5	0.008	0.008	0.004	5.470
434	150.027	1339.65	12	Naphthalene, 6-ethyl-1,2,3,4-tetrahydro-	0.010	0.007	0.005	7.149
435	150.796	1347.50	?	Unidentified	0.005	0.005	0.003	3.162
436	151.027	1349.86	12	Octane, 3-ethyl-2,7-dimethyl-	0.004	0.004	0.002	2.768
437	151.652	1356.21	12	Benzene, 1,2,4-trimethyl-5-(1-methylethyl)-	0.002	0.002	0.001	1.317
438	152.134	1361.09	13	Benzene, (2,4-dimethylpentyl)-	0.006	0.005	0.003	4.387
439	152.636	1366.15	13	Undecane, 3-ethyl-	0.004	0.004	0.002	2.540
440	152.896	1368.76	13	Undecane, 2,8-dimethyl-	0.005	0.005	0.002	3.791
441	153.061	1370.42	13	Naphthalene, 1,2,3,4-tetrahydro-6-propyl-	0.003	0.003	0.002	2.512
442	153.309	1372.91	?	Unidentified	0.008	0.007	0.004	4.987
443	154.097	1380.80	13	Decane, 2,3,5-trimethyl-	0.003	0.003	0.001	2.070
444	154.791	1387.70	12	2-Ethyl-naphthalene	0.018	0.014	0.009	13.667
445	155.044	1390.21	12	1-Indene,2,3-dihydro-1,5,7-trimethyl-	0.012	0.009	0.006	9.009
446	155.921	1398.88	12	Naphthalene, 1,6-dimethyl-	0.015	0.011	0.008	11.103
447	155.971	1399.38	12	Naphthalene,1,5-dimethyl	0.019	0.015	0.010	14.270
448	156.034	1400.00	14	n-Tetradecane	0.284	0.280	0.118	197.542
449	157.127	1412.28	?	Unidentified	0.002	0.002	0.001	1.269
450	157.327	1414.52	12	Dimethylnaphthalene-4	0.038	0.029	0.020	28.204

Certificate of Composition
 Part #: SD-053-011 and SD-053-016
 PIANO Blend with Oxygenates

ASTM D6730 with Helium Carrier

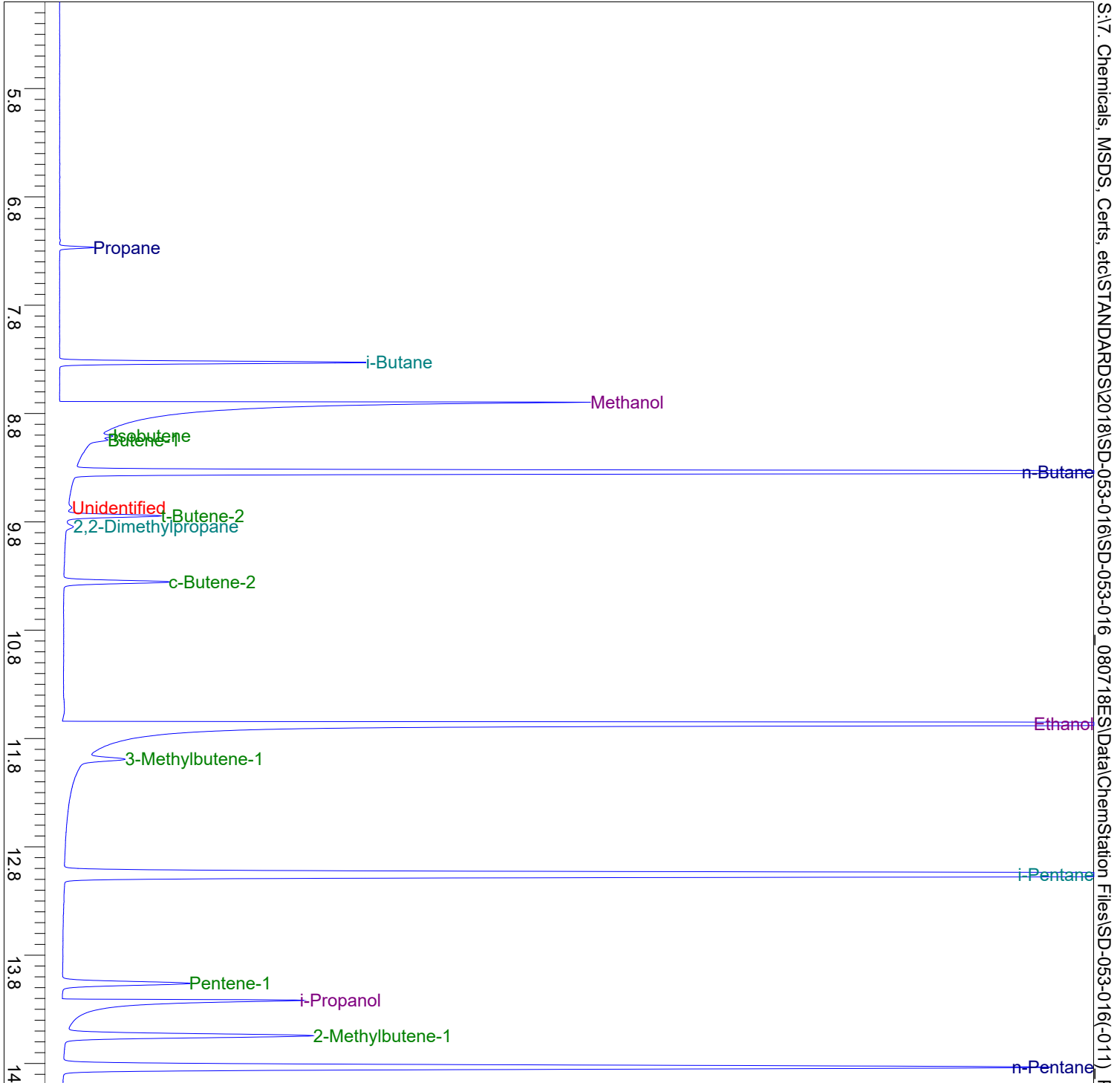
Component List

<u>Pk#</u>	<u>Time</u>	<u>RI</u>	<u>C#</u>	<u>Component</u>	<u>%Wgt</u>	<u>%Vol</u>	<u>%Mol</u>	<u>Area</u>
451	157.690	1418.58	12	Naphthalene, 1,3-dimethyl-	0.018	0.014	0.009	13.660
452	159.247	1435.86	12	Naphthalene, 1,2-dimethyl-	0.012	0.010	0.007	9.392
453	159.529	1438.97	12	Naphthalene, 1,8-dimethyl-	0.004	0.003	0.002	3.046
454	160.659	1451.39	12	Naphthalene, 1,5-dimethyl-	0.009	0.007	0.005	6.959
455	161.974	1465.73	12	Octane, 3,4,5,6-tetramethyl-	0.003	0.002	0.001	1.737
456	162.939	1476.18	13	1,1'-Biphenyl, 3-methyl-	0.005	0.004	0.002	3.564
457	163.790	1485.35	13	Naphthalene, 1-propyl-	0.005	0.004	0.002	3.669
458	165.160	1500.00	15	n-Pentadecane	0.404	0.395	0.156	280.906
459	165.262	1501.08	13	Naphthalene, 2,3,6-trimethyl-	0.004	0.003	0.002	2.770
460	166.417	1513.33	13	Azulene, 4,6,8-trimethyl-	0.011	0.009	0.005	8.288
461	167.202	1521.61	13	Naphthalene, 1,4,6-trimethyl-	0.004	0.003	0.002	2.760
462	167.705	1526.90	13	Naphthalene, 1,4,5-trimethyl-	0.004	0.004	0.002	3.287
463	169.082	1541.28	13	C13_Naphthalenes(1)	0.004	0.003	0.002	2.805
464	169.460	1545.21	13	C13_Naphthalenes(2)	0.004	0.003	0.002	2.881
465	170.465	1555.62	?	Unidentified	0.003	0.002	0.001	1.641
466	170.840	1559.48	13	Naphthalene, 2-(1-methylethyl)-	0.003	0.002	0.001	1.957
467	172.164	1573.06	14	4,4'-Dimethylbiphenyl	0.003	0.002	0.001	2.218
468	173.344	1585.07	14	Tridecane, 3-methyl-	0.002	0.002	0.001	1.463

Certificate of Composition
Part #: SD-053-011 and SD-053-016
PIANO Blend with Oxygenates

ASTM D6730 with Helium Carrier

Sample Chromatogram



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