

Certificate of Composition  
 Part #: SD-053-040  
 Light Naphtha

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	31.426	33.321	32.896	25.992	0.214
I-Paraffins	35.259	37.093	35.275	29.162	0.240
Aromatics	3.135	2.442	3.182	2.593	0.021
<i>Mono-Aromatics</i>	3.135	2.442	3.182	2.593	0.021
<i>Naphthalenes</i>	0.000	0.000	0.000	0.000	0.000
<i>Indanes</i>	0.000	0.000	0.000	0.000	0.000
<i>Indenes</i>	0.000	0.000	0.000	0.000	0.000
Naphthenes	30.144	27.116	28.627	24.932	0.206
<i>Mono-Naphthenes</i>	30.144	27.116	28.627	24.932	0.206
<i>Di/Bicyclo-Naphthenes</i>	0.000	0.000	0.000	0.000	0.000
Olefins	0.000	0.000	0.000	0.000	0.000
<i>n-Olefins</i>	0.000	0.000	0.000	0.000	0.000
<i>Iso-Olefins</i>	0.000	0.000	0.000	0.000	0.000
<i>Naphtheno-Olefins</i>	0.000	0.000	0.000	0.000	0.000
<i>Di-Olefins</i>	0.000	0.000	0.000	0.000	0.000
Oxygenates	0.000	0.000	0.000	0.000	0.000
Unidentified	0.035	0.029	0.019	0.029	0.000
Plus	0.000	0.000	0.000	0.000	0.000
	<b>100.000</b>	<b>100.000</b>	<b>100.000</b>	<b>82.708</b>	<b>0.682</b>

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## Component List

<u>Pk#</u>	<u>Time</u>	<u>C#</u>	<u>Component</u>	<u>%Wgt</u>	<u>%Vol</u>	<u>%Mol</u>
1	9.098	4	i-Butane	0.008	0.009	0.011
2	10.182	4	n-Butane	0.750	0.884	1.067
3	10.707	5	2,2-Dimethylpropane	0.025	0.029	0.029
4	13.955	5	i-Pentane	12.618	13.889	14.464
5	14.978	?	Unidentified	0.012	0.010	0.007
6	15.450	?	Unidentified	0.012	0.010	0.007
7	15.743	5	n-Pentane	14.836	16.158	17.007
8	17.240	?	Unidentified	0.011	0.009	0.006
9	18.287	6	2,2-Dimethylbutane	0.330	0.347	0.317
10	20.448	5	Cyclopentane	2.121	1.940	2.501
11	20.638	6	2,3-Dimethylbutane	0.991	1.022	0.951
12	21.050	6	2-Methylpentane	8.596	8.976	8.250
13	22.238	6	3-Methylpentane	6.032	6.193	5.789
14	23.823	6	n-Hexane	13.013	13.459	12.489
15	26.092	7	2,2-Dimethylpentane	0.175	0.177	0.145
16	26.325	6	Methylcyclopentane	10.294	9.378	10.116
17	26.738	7	2,4-Dimethylpentane	0.410	0.416	0.339
18	27.237	7	2,2,3-Trimethylbutane	0.028	0.028	0.023
19	28.957	6	Benzene	2.281	1.770	2.415
20	29.452	7	3,3-Dimethylpentane	0.095	0.093	0.078
21	29.930	6	Cyclohexane	7.827	6.856	7.691
22	31.027	7	2-Methylhexane	2.054	2.064	1.695
23	31.225	7	2,3-Dimethylpentane	0.881	0.864	0.727
24	31.585	7	1,1-Dimethylcyclopentane	0.879	0.795	0.741
25	32.135	7	3-Methylhexane	2.484	2.466	2.050
26	32.995	7	1t,3-Dimethylcyclopentane	1.735	1.580	1.461
27	33.378	7	1c,3-Dimethylcyclopentane	1.488	1.363	1.254
28	33.523	7	3-Ethylpentane	0.209	0.204	0.172
29	33.762	7	1t,2-Dimethylcyclopentane	2.584	2.345	2.177
30	35.595	7	n-Heptane	2.826	2.819	2.333
31	38.748	7	1c,2-Dimethylcyclopentane	0.113	0.105	0.095
32	38.898	7	Methylcyclohexane	2.709	2.401	2.282
33	39.398	8	2,2-Dimethylhexane	0.165	0.161	0.119
34	41.010	7	Ethylcyclopentane	0.177	0.158	0.149
35	41.512	8	2,4-Dimethylhexane	0.021	0.020	0.015
36	42.657	8	1c,2t,4-Trimethylcyclopentane	0.107	0.096	0.079
37	44.173	8	1t,2c,3-Trimethylcyclopentane	0.110	0.098	0.081
38	45.843	7	Toluene	0.855	0.672	0.767
39	48.663	8	2-Methylheptane	0.074	0.072	0.053
40	51.028	8	3-Ethylhexane	0.063	0.060	0.046

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### Sample Chromatogram



































