

Detailed Hydrocarbon Analysis Summary Report -

Report Date: 2/19/2010 10:20:33 PM

RawFile: F:\DHA\gaslibrary\GULFNH.AIA\SIGNAL01.cdf Acquired: 01/01/00 00:00:00
Sample: GULF Prem Analyzed: 2/19/2010 10:20:10 PM
Processed 252 Peaks
Reference File: C:\Program Files\DHA Application Software\1994 D6730 Data\
Comments: Normalized to 100.0000%

SUMMARY REPORT

Group Type	Total(Mass%)	Total(Vol%)	Total(Mol%)
Paraffins:	11.5496	13.8883	13.9140
I-Paraffins:	30.6061	34.1952	28.1072
Olefins:	4.5212	4.9118	4.7482
Napthenes:	3.7490	3.6205	3.3500
Aromatics:	37.7286	32.1008	29.5395
Total C14+:	0.0000	0.0000	0.0000
Total Unknowns:	1.2958	1.3721	1.1265

Oxygenates:

Total: 10.5497(Mass%) 9.9113(Vol%)
Total Oxygen Content: 3.6637(Mass%)

Multisubstituted Aromatics: 22.7076(Mass%) 19.3423(Vol%)

Average Molecular Weight: 75.0575

Relative Density: 0.6631

Reid Vapor Pressure @ 100F: 9.3833

Calculated Octane Number: 95.6126

	IBP	T10	T50	T90	FBP
Boiling Point (Deg F)	10.90	82.11	210.63	329.32	472.35

Percent Carbon: 84.1743

Percent Hydrogen: 12.1619

Bromine Number (Calc): 8.9948

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Oxygenates

Compound	Mass%	Mass% Oxygen	Vol%
ethanol : X2	10.550	3.664	9.911

Molecular Weight and Relative Density Data

Group	Avg Mw.	Avg Rel. Density
C1	0.000	0.000
C2	30.070	0.340
C3	44.097	0.501
C4	58.046	0.573
C5	71.856	0.628
C6	85.022	0.687
C7	95.512	0.778
C8	109.612	0.786
C9	121.479	0.842
C10	133.365	0.870
C11	150.992	0.829
C12	164.336	0.849
C13	0.000	0.000
Total Sample:	75.10	0.66

Octane Number

Research Octane Number: 95.60
(Calculated from Individual Component Values)

Contribution to Total by:

Paraffins:	8.01
Iso-Paraffins:	26.40
Aromatics:	43.40
Napthenes:	3.09
Olefins:	4.24
Oxygenates:	10.50

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Totals by Group Type & Carbon Number (in Mass Percent)

	Paraffins	I-Paraffins	Olefins	Napthenes	Aromatics	Unknowns	Total
C1	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
C2	0.00182	0.00000	0.00000	0.00000	0.00000	0.00000	0.00182
C3	0.15264	0.00000	0.00000	0.00000	0.00000	0.00000	0.15264
C4	5.22792	2.66751	0.17983	0.00000	0.00000	0.00000	8.07526
C5	2.34934	4.71618	0.93046	0.16518	0.00000	0.00000	8.16116
C6	1.81187	5.46997	3.12689	1.81533	0.51509	0.83203	13.57118
C7	1.26122	6.41567	0.25932	0.65929	10.51069	0.00000	19.10619
C8	0.50273	9.07170	0.00000	0.66940	12.41306	0.03451	22.69141
C9	0.14839	1.54939	0.02473	0.28790	9.50192	0.34763	11.85995
C10	0.05036	0.30900	0.00000	0.08357	4.06858	0.01960	4.53112
C11	0.03042	0.29920	0.00000	0.06834	0.38732	0.03289	0.81817
C12	0.01288	0.10751	0.00000	0.00000	0.33196	0.02909	0.48143
C13	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Total:	11.54959	30.60614	4.52122	3.74901	37.72862	1.29575	88.15457
Oxygenates	10.54967			Total C14+:	0.00000		
Total Unknowns:	1.29575			Grand Total:	100.00000		

Totals by Group Type & Carbon Number (in Volume Percent)

	Paraffins	I-Paraffins	Olefins	Napthenes	Aromatics	Unknowns	Total
C1	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
C2	0.00398	0.00000	0.00000	0.00000	0.00000	0.00000	0.00398
C3	0.22606	0.00000	0.00000	0.00000	0.00000	0.00000	0.22606
C4	6.69525	3.54864	0.20567	0.00000	0.00000	0.00000	10.44957
C5	2.78099	5.64343	1.04692	0.16426	0.00000	0.00000	9.63560
C6	2.03679	6.16310	3.36299	1.74899	0.43442	0.88107	14.62735
C7	1.36738	6.94476	0.26936	0.64757	8.98626	0.00000	18.21534
C8	0.53047	9.58098	0.00000	0.64519	10.60565	0.03655	21.39884
C9	0.15328	1.59673	0.02685	0.27389	8.08698	0.36812	10.50584
C10	0.05114	0.31201	0.00000	0.07729	3.40255	0.02076	3.86375
C11	0.03031	0.29971	0.00000	0.06332	0.30844	0.03483	0.73661
C12	0.01268	0.10583	0.00000	0.00000	0.27649	0.03080	0.42580
C13	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Total:	13.88832	34.19520	4.91179	3.62051	32.10081	1.37212	88.71662
Oxygenates	9.91126			Total C14+:	0.00000		
Total Unknowns:	1.37212			Grand Total:	100.00000		

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Totals by Group Type & Carbon Number (in Mol Percent)

	Paraffins	I-Paraffins	Olefins	Napthenes	Aromatics	Unknowns	Total
C1	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
C2	0.00509	0.00000	0.00000	0.00000	0.00000	0.00000	0.00509
C3	0.29045	0.00000	0.00000	0.00000	0.00000	0.00000	0.29045
C4	7.54719	3.85091	0.27524	0.00000	0.00000	0.00000	11.67334
C5	2.73222	5.48479	1.11559	0.19762	0.00000	0.00000	9.53023
C6	1.76418	5.32599	3.11919	1.80989	0.55331	0.81013	13.38270
C7	1.05612	5.37236	0.22177	0.56341	9.57153	0.00000	16.78519
C8	0.36929	6.66367	0.00000	0.50054	9.81065	0.02700	17.37115
C9	0.09708	1.01364	0.01644	0.19136	6.63341	0.24102	8.19295
C10	0.02970	0.18223	0.00000	0.04999	2.57661	0.01163	2.85017
C11	0.01633	0.16061	0.00000	0.03717	0.22229	0.02056	0.45696
C12	0.00634	0.05297	0.00000	0.00000	0.17165	0.01614	0.24711
C13	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Total:	13.91399	28.10718	4.74822	3.34998	29.53946	1.12649	79.65884
	Oxygenates	19.21468		Total C14+:	0.00000		
	Total Unknowns:	1.12649		Grand Total:	100.00000		

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Components Listed in Chromatographic Order

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Minutes	Index	Group	Component	Mass %	Volume %	Mol %
7.124	200.000	P2	ethane	0.002	0.004	0.005
7.390	300.000	P3	propane	0.153	0.226	0.290
7.807	365.930	I4	i-butane	2.668	3.549	3.851
8.049	390.280	O4	butene-1	0.037	0.047	0.056
8.164	400.000	P4	n-butane	5.228	6.695	7.547
8.288	410.030	O4	vinyl acetylene	0.041	0.046	0.063
8.345	414.260	I5	2,2-dimethylpropane	0.022	0.027	0.025
8.493	424.580	O4	c-butene-2	0.030	0.035	0.044
8.764	441.120	X2	ethanol	10.550	9.911	19.215
9.069	457.000	O5	3-methylbutene-1	0.025	0.029	0.030
9.475	474.840	I5	i-pentane	4.694	5.616	5.459
9.846	488.780	O4	butyne-2	0.072	0.078	0.112
10.039	495.320	O5	2-methylbutene-1	0.143	0.163	0.171
10.184	500.000	P5	n-pentane	2.349	2.781	2.732
10.337	504.950	O5	isoprene	0.006	0.007	0.008
10.416	507.460	O5	t-pentene-2	0.240	0.275	0.287
10.690	515.640	O5	3,3-dimethylbutene-1	0.127	0.145	0.153
10.868	520.660	O5	2-methylbutene-2	0.328	0.367	0.392
10.961	523.180	O5	1t,3-pentadiene	0.008	0.009	0.010
11.436	535.220	O5	3-methylbutadiene-1,2	0.007	0.008	0.009
11.524	537.310	I6	2,2-dimethylbutane	0.331	0.378	0.322
12.354	555.240	O5	cyclopentene	0.046	0.044	0.056
12.511	558.320	O6	4-methylpentene-1	0.055	0.061	0.055
12.599	560.010	O6	3-methylpentene-1	0.015	0.017	0.015
12.948	566.460	N5	cyclopentane	0.165	0.164	0.198
13.025	567.830	I6	2,3-dimethylbutane	1.149	1.288	1.119
13.140	569.850	O6	2,3-dimethylbutene-1	0.156	0.169	0.155
13.255	571.820	I6	2-methylpentane	2.383	2.705	2.321
13.303	572.630	--	unknown	0.832	0.881	0.810
14.077	584.990	I6	3-methylpentane	1.606	1.793	1.564
14.350	589.010	O6	2-methylpentene-1	0.228	0.246	0.227
14.410	589.890	O6	hexene-1	0.037	0.041	0.037
15.146	600.000	P6	n-hexane	1.812	2.037	1.764
15.265	601.760	O6	t-hexene-3	0.205	0.223	0.205
15.351	603.020	O6	c-hexene-3	0.041	0.044	0.040
15.459	604.590	O6	t-hexene-2	0.577	0.626	0.575
15.624	606.950	O6	2-methylpentene-2	1.402	1.504	1.398
15.808	609.530	O6	O12	0.019	0.020	0.019

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15.868	610.360	O6	3-methyl-c-pentene-2	0.054	0.057	0.053
16.037	612.650	O6	O13	0.010	0.011	0.010
16.144	614.090	O6	c-hexene-2	0.180	0.193	0.180
16.618	620.260	O6	O15	0.080	0.086	0.080
16.971	624.660	I7	2,2-dimethylpentane	0.134	0.148	0.112
17.184	627.240	N6	methylcyclopentane	0.539	0.534	0.538
17.487	630.820	I7	2,4-dimethylpentane	1.158	1.276	0.970
17.964	636.250	I7	2,2,3-trimethylbutane	0.040	0.043	0.033
19.202	649.320	O6	1-methylcyclopentene	0.068	0.065	0.070
19.299	650.290	A6	benzene	0.515	0.434	0.553
19.848	655.620	I7	3,3-dimethylpentane	0.133	0.142	0.112
20.248	659.360	N6	cyclohexane	1.276	1.215	1.272
20.382	660.600	O7	2-methyl-t-hexene-3	0.007	0.008	0.006
21.035	666.420	O7	4-methyl-t/c-hexene-2	0.017	0.018	0.015
21.212	667.950	I7	2-methylhexane	1.409	1.539	1.180
21.413	669.670	I7	2,3-dimethylpentane	1.683	1.795	1.409
21.735	672.370	N7	1,1-dimethylcyclopentane	0.030	0.029	0.025
21.996	674.510	O7	1,6-heptadiene	0.008	0.008	0.007
22.229	676.400	I7	3-methylhexane	1.689	1.822	1.414
22.634	679.600	O7	3,4-dimethyl-c-pentene-2	0.007	0.007	0.006
23.011	682.520	N7	1c,3-dimethylcyclopentane	0.116	0.115	0.099
23.366	685.200	N7	1t,3-dimethylcyclopentane	0.102	0.101	0.087
23.505	686.230	I7	3-ethylpentane	0.169	0.179	0.141
23.721	687.820	N7	1t,2-dimethylcyclopentane	0.106	0.104	0.090
23.954	689.510	I8	2,2,4-trimethylpentane	3.731	3.998	2.741
24.686	694.680	O7	3-methyl-c-hexene-3	0.012	0.013	0.010
25.175	698.010	O7	t-heptene-3	0.039	0.041	0.033
25.472	700.000	P7	n-heptane	1.261	1.367	1.056
25.743	702.080	O7	3-methyl-c-hexene-2	0.053	0.055	0.045
25.895	703.240	O7	3-methyl-t-hexene-3	0.020	0.022	0.017
26.161	705.240	O7	t-heptene-2	0.019	0.020	0.017
26.410	707.100	O7	3-ethylpentene-2	0.011	0.012	0.010
26.884	710.560	O7	3-methyl-t-hexene-2	0.042	0.043	0.036
27.434	714.460	O7	3-ethylcyclopentene	0.009	0.009	0.008
27.517	715.050	O7	O26	0.013	0.014	0.011
28.398	721.080	N7	1c,2-dimethylcyclopentane	0.056	0.057	0.048
28.539	722.020	N7	methylcyclohexane	0.181	0.174	0.154
29.000	725.060	N8	1,1,3-trimethylcyclopentane	0.090	0.089	0.067

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Minutes	Index	Group	Component	Mass %	Volume %	Mol %
30.548	734.810	N7	ethylcyclopentane	0.069	0.067	0.059
30.804	736.360	I8	2,5-dimethylhexane	0.586	0.627	0.431
30.966	737.330	I8	2,2,3-trimethylpentane	0.212	0.220	0.156
31.144	738.390	I8	2,4-dimethylhexane	0.584	0.618	0.429
32.123	744.100	N8	1c,2t,4-trimethylcyclopentane	0.039	0.037	0.029
32.379	745.550	I8	3,3-dimethylhexane	0.058	0.060	0.042
33.452	751.490	N8	1t,2c,3-trimethylcyclopentane	0.030	0.029	0.023
34.002	754.450	I8	2,3,4-trimethylpentane	1.871	1.929	1.374
34.368	756.370	I8	2,3,3-trimethylpentane	0.010	0.010	0.007
34.790	758.570	A7	toluene	10.511	8.986	9.572
35.025	759.780	--	unknown	0.009	0.010	0.009
36.088	765.120	I8	2,3-dimethylhexane	0.523	0.544	0.384
36.308	766.200	I8	2-methyl-3-ethylpentane	0.038	0.040	0.028
36.700	768.110	N8	1,1,2-trimethylcyclopentane	0.012	0.011	0.009
37.285	770.910	I8	2-methylheptane	0.496	0.527	0.365
37.564	772.230	I8	4-methylheptane	0.234	0.246	0.172
37.744	773.060	I8	3-methyl-3-ethylpentane	0.069	0.072	0.051
37.849	773.550	I8	3,4-dimethylhexane	0.073	0.076	0.054
38.324	775.750	--	unknown	0.025	0.027	0.018
38.742	777.650	I8	3-methylheptane	0.584	0.614	0.429
38.937	778.530	N8	1c,2t,3-trimethylcyclopentane	0.179	0.172	0.134
39.300	780.150	N8	1t,4-dimethylcyclohexane	0.017	0.017	0.013
40.901	787.090	I9	2,2,5-trimethylhexane	0.359	0.376	0.235
41.114	787.990	N8	3c-ethylmethylcyclopentane	0.040	0.038	0.030
41.532	789.740	N8	3t-ethylmethylcyclopentane	0.029	0.028	0.022
41.782	790.770	N8	2t-ethylmethylcyclopentane	0.023	0.022	0.017
42.184	792.420	I9	2,2,4-trimethylhexane	0.008	0.008	0.005
42.706	794.530	N8	1t,2-dimethylcyclohexane	0.028	0.027	0.021
43.528	797.800	N8	1c,2c,3-trimethylcyclopentane	0.024	0.022	0.018
44.091	800.000	P8	n-octane	0.503	0.530	0.369
44.591	802.600	I9	I2	0.009	0.009	0.006
45.203	805.750	N8	i-propylcyclopentane	0.020	0.019	0.015
45.491	807.210	I9	2,4,4-trimethylhexane	0.037	0.037	0.024
46.437	811.940	N8	N1	0.075	0.072	0.056
47.115	815.260	--	unknown	0.043	0.045	0.032
47.494	817.090	I9	2,2,3,4-tetramethylpentane	0.066	0.066	0.043
47.817	818.640	I9	2,3,4-trimethylhexane	0.015	0.015	0.010
48.312	820.990	N8	N3	0.018	0.017	0.013

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49.266	825.430	I9	2,3,5-trimethylhexane	0.072	0.074	0.047
50.057	829.040	--	unknown	0.016	0.017	0.011
50.367	830.440	I9	2,2-dimethylheptane	0.036	0.037	0.023
50.605	831.510	--	unknown	0.012	0.013	0.008
50.841	832.560	N9	1,1,4-trimethylcyclohexane	0.042	0.040	0.028
51.372	834.900	N8	N4	0.047	0.044	0.035
52.450	839.580	I9	4,4-dimethylheptane	0.119	0.124	0.078
52.768	840.940	N9	*1c,3c,5-trimethylcyclohexane	0.032	0.031	0.021
54.249	847.140	I9	2,6-dimethylheptane	0.030	0.032	0.020
54.496	848.150	N9	1,1,3-trimethylcyclohexane	0.051	0.048	0.034
54.942	849.970	A8	ethylbenzene	1.973	1.687	1.559
55.195	851.000	N9	1c,2t,4t-trimethylcyclohexane	0.009	0.009	0.006
55.379	851.740	N9	1c,3c,5c-trimethylcyclohexane	0.013	0.012	0.009
55.615	852.690	I9	I3	0.020	0.020	0.013
56.864	857.630	--	unknown	0.052	0.055	0.034
57.053	858.370	--	unknown	0.025	0.027	0.017
57.481	860.030	A8	1,3-dimethylbenzene	5.331	4.573	4.214
57.750	861.060	A8	1,4-dimethylbenzene	2.325	2.002	1.838
57.996	862.000	I9	3,4-dimethylheptane	0.078	0.079	0.051
58.664	864.540	N9	N14	0.061	0.058	0.040
59.457	867.510	I9	4-ethylheptane	0.039	0.040	0.026
59.978	869.430	--	unknown	0.072	0.076	0.047
60.349	870.790	I9	4-methyloctane	0.130	0.133	0.085
60.654	871.900	I9	2-methyloctane	0.138	0.144	0.090
61.457	874.790	I9	3-ethylheptane	0.016	0.017	0.011
62.051	876.910	--	unknown	0.041	0.044	0.027
62.444	878.290	I9	3-methyloctane	0.187	0.193	0.123
63.447	881.780	A8	1,2-dimethylbenzene	2.783	2.344	2.200
63.728	882.750	--	unknown	0.011	0.012	0.009
63.936	883.460	--	unknown	0.015	0.016	0.012
64.261	884.570	--	unknown	0.044	0.047	0.035
64.442	885.190	I9	I6	0.055	0.056	0.036
64.957	886.930	I9	I7	0.012	0.012	0.008
65.204	887.760	N9	N18	0.019	0.018	0.013
65.751	889.580	N9	N20	0.028	0.026	0.018
65.974	890.320	I9	I8	0.073	0.074	0.048
66.148	890.890	--	unknown	0.016	0.017	0.010
67.541	895.420	N9	N22	0.014	0.013	0.009

Detailed Hydrocarbon Analysis Detail Report -

Report Date: 2/19/2010 10:20:33 PM

RawFile: F:\Gasoline DHA\gaslibrary\GULFNH.AIA\SIGNAL01.cdf Acquired: 01/01/00 00:00:00
 Sample: GULF Prem Analyzed: 2/19/2010 10:20:10 PM
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Minutes	Index	Group	Component	Mass %	Volume %	Mol %
67.998	896.890	N9	N23/t-nonene-2	0.012	0.011	0.008
68.386	898.120	O9	c-nonene-3	0.025	0.027	0.016
68.676	899.040	I9	I10	0.049	0.050	0.032
68.979	900.000	P9	n-nonane	0.148	0.153	0.097
69.612	904.250	N9	N24	0.008	0.007	0.005
70.818	912.230	A9	i-propylbenzene	0.142	0.122	0.099
71.352	915.720	I10	I11	0.011	0.011	0.006
72.351	922.160	I10	2,4-dimethyloctane	0.038	0.039	0.023
72.667	924.180	--	unknown	0.011	0.012	0.006
72.807	925.070	I10	2,2-dimethyloctane	0.014	0.015	0.008
74.119	933.330	I10	2,5-dimethyloctane	0.026	0.027	0.016
74.881	938.060	N10	N30	0.026	0.024	0.015
75.037	939.020	--	unknown	0.009	0.009	0.005
75.701	943.080	I10	3,3-dimethyloctane	0.025	0.025	0.015
76.298	946.700	A9	n-propylbenzene	0.610	0.524	0.426
77.679	954.960	A9	1,3-methylethylbenzene	2.195	1.882	1.533
77.980	956.740	A9	1,4-methylethylbenzene	0.974	0.839	0.680
78.953	962.430	A9	1,3,5-trimethylbenzene	1.028	0.880	0.717
79.284	964.350	I10	I15	0.013	0.013	0.008
79.994	968.440	I10	5-methylnonane	0.016	0.016	0.009
80.379	970.650	A9	1,2-methylethylbenzene	0.899	0.756	0.627
80.668	972.290	I10	2-methylnonane	0.040	0.041	0.024
81.145	974.990	I10	3-ethyloctane	0.009	0.009	0.005
81.667	977.930	N10	N36	0.049	0.045	0.029
82.277	981.330	I10	I19	0.050	0.050	0.029
82.758	984.000	A9	1,2,4-trimethylbenzene	3.080	2.607	2.150
83.399	987.520	I10	I21	0.019	0.019	0.011
83.518	988.170	I10	I22	0.013	0.013	0.007
84.731	994.750	I10	I24	0.034	0.034	0.020
84.934	995.840	A10	i-butylbenzene	0.051	0.044	0.032
85.301	997.810	A10	sec-butylbenzene	0.073	0.062	0.045
85.711	1000.000	P10	n-decane	0.050	0.051	0.030
85.984	1002.460	I11	I26	0.010	0.010	0.005
86.495	1007.070	A9	1,2,3-trimethylbenzene	0.574	0.476	0.401
86.773	1009.560	A10	1,3-methyl-i-propylbenzene	0.075	0.065	0.047
87.192	1013.290	A10	1,4-methyl-i-propylbenzene	0.021	0.018	0.013
87.748	1018.230	I11	I29	0.014	0.014	0.008
87.909	1019.650	A10	2-3-dihydroindene	0.280	0.215	0.199

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Minutes	Index	Group	Component	Mass %	Volume %	Mol %
88.511	1024.930	N10	sec-butylcyclohexane	0.009	0.008	0.005
88.691	1026.510	I11	I30	0.015	0.015	0.008
88.874	1028.110	A10	1,2-methyl-i-propylbenzene	0.011	0.009	0.007
89.326	1032.030	N11	N40	0.068	0.063	0.037
89.501	1033.550	I11	I31	0.013	0.013	0.007
90.234	1039.860	A10	1,3-diethylbenzene	0.181	0.155	0.113
90.569	1042.720	A10	1,3-methyl-n-propylbenzene	0.474	0.409	0.297
90.833	1044.970	A10	1,4-diethylbenzene	0.007	0.006	0.005
91.024	1046.600	A10	1,4-methyl-n-propylbenzene	0.226	0.195	0.141
91.140	1047.580	A10	n-butylbenzene	0.094	0.081	0.059
91.405	1049.830	A10	1,3-dimethyl-5-ethylbenzene	0.403	0.339	0.252
91.645	1051.850	A10	1,2-diethylbenzene	0.026	0.022	0.016
92.386	1058.070	A10	1,2-methyl-n-propylbenzene	0.130	0.111	0.082
92.824	1061.720	--	unknown	0.010	0.010	0.006
92.960	1062.850	I11	I36	0.096	0.096	0.051
93.173	1064.620	I11	I37	0.014	0.014	0.008
93.339	1065.980	I11	I38	0.020	0.020	0.011
93.600	1068.140	A10	1,4-dimethyl-2-ethylbenzene	0.237	0.200	0.148
93.802	1069.800	A10	1,3-dimethyl-4-ethylbenzene	0.248	0.214	0.155
93.969	1071.170	I11	I39	0.067	0.067	0.036
94.487	1075.410	A10	1,2-dimethyl-4-ethylbenzene	0.453	0.384	0.283
95.155	1080.840	A10	1,3-dimethyl-2-ethylbenzene	0.031	0.026	0.019
95.377	1082.640	I11	I42	0.051	0.051	0.027
96.229	1089.480	A10	1,2-dimethyl-3-ethylbenzene	0.008	0.006	0.005
96.515	1091.770	--	unknown	0.023	0.024	0.014
96.689	1093.150	A11	1,4-methyl-t-butylbenzene	0.113	0.098	0.064
97.304	1098.020	A11	1,2-ethyl-i-propylbenzene	0.015	0.012	0.008
97.554	1100.000	P11	n-undecane	0.030	0.030	0.016
97.757	1102.220	A11	1,4-ethyl-i-propylbenzene	0.011	0.009	0.006
98.024	1105.140	A10	1,2,4,5-tetramethylbenzene	0.228	0.191	0.143
98.385	1109.070	A10	1,2,3,5-tetramethylbenzene	0.283	0.236	0.177
99.042	1116.190	--	unknown	0.010	0.011	0.006
100.121	1127.760	A10	5-methylindan	0.135	0.113	0.086
100.467	1131.440	I12	I44	0.011	0.010	0.005
100.638	1133.250	A10	4-methylindan	0.034	0.028	0.022
100.923	1136.270	A11	1,2-ethyl-n-propylbenzene	0.037	0.031	0.021
101.147	1138.640	A10	2-methylindan	0.132	0.109	0.084
101.591	1143.310	A12	1,3-di-i-propylbenzene	0.109	0.090	0.056

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Minutes	Index	Group	Component	Mass %	Volume %	Mol %
102.169	1149.360	A11	n-pentylbenzene	0.034	0.028	0.019
102.549	1153.320	A12	1,2-di-i-propylbenzene	0.035	0.029	0.018
102.980	1157.790	--	unknown	0.019	0.020	0.010
103.149	1159.540	A12	1,4-di-i-propylbenzene	0.026	0.022	0.013
103.536	1163.530	A10	tetrahydronaphthalene	0.009	0.007	0.006
103.816	1166.400	I12	I45	0.030	0.030	0.015
104.037	1168.670	A10	naphthalene	0.216	0.156	0.141
104.580	1174.210	A12	1,4-ethyl-t-butylbenzene	0.024	0.020	0.012
104.984	1178.310	I12	I46	0.032	0.031	0.016
105.146	1179.950	I12	I47	0.009	0.009	0.005
105.528	1183.820	I12	I48	0.014	0.014	0.007
105.902	1187.580	I12	I49	0.012	0.011	0.006
106.028	1188.840	A12	1,3-di-n-propylbenzene	0.029	0.024	0.015
106.184	1190.400	A12	A5	0.019	0.016	0.010
107.001	1198.560	A12	A6	0.016	0.013	0.008
107.146	1200.000	P12	n-dodecane	0.013	0.013	0.006
108.539	1216.860	A12	1,3,5-triethylbenzene	0.011	0.009	0.005
109.018	1222.610	A12	1t-Butyl-4-ethylbenzene	0.008	0.007	0.004
109.205	1224.850	A12	1,2,4-triethylbenzene	0.014	0.012	0.007
110.617	1241.620	A12	1,4-methyl-n-pentylbenzene	0.025	0.021	0.013
111.793	1255.390	A12	n-hexylbenzene	0.016	0.014	0.008
113.356	1273.480	A11	1,2,3,4,5-pentamethylbenzene	0.026	0.019	0.015
114.086	1281.840	A11	2-methylnaphthalene	0.101	0.074	0.059
115.398	1296.720	A11	1-methylnaphthalene	0.051	0.037	0.030

Start Time: 0.000 - End Time: 30.000







