

## **Attachment A2**

### **Tables of Organic Gas Emission Profiles**

## Organic Gas Speciation (Weight Percent)

CNUM	CHEMNAME	Liquid Gasoline			
		MTBE	Non-Oxy	EtOH 2%	EtOH3.5%
1	methyl alcohol	0.010	0.000	0.010	0.010
2	ethyl alcohol	0.000	0.000	5.750	10.100
3	n-propyl alcohol	0.020	0.000	0.020	0.020
4	cis-2-butene	0.010	0.010	0.010	0.010
	isobutane	0.170	0.140	0.160	0.150
	n-butane	1.010	0.810	0.800	0.760
	trans-2-butene	0.010	0.010	0.010	0.010
	1-butene	0.010	0.010	0.010	0.010
5	cis-2-pentene	0.220	0.170	0.130	0.130
	cyclopentane	0.140	0.180	0.090	0.080
	cyclopentene	0.070	0.060	0.040	0.040
	isopentane	9.800	12.820	6.260	5.970
	isoprene	0.010	0.010	0.010	0.010
	methyl t-butyl ether (MTBE)	11.550	0.000	0.000	0.000
	n-pentane	1.810	2.370	1.160	1.100
	trans-1,3-pentadiene	0.030	0.020	0.020	0.020
	trans-2-pentene	0.400	0.320	0.240	0.230
	1-pentene	0.120	0.100	0.070	0.070
	1,3-cyclopentadiene	0.010	0.010	0.010	0.010
	2-methyl-1-butene	0.230	0.180	0.140	0.130
	2-methyl-2-butene	0.610	0.490	0.370	0.350
	2,2-dimethylpropane	0.010	0.010	0.010	0.010
	3-methyl-1-butene	0.020	0.020	0.010	0.010
6	benzene	1.000	1.000	1.000	1.000
	cis-2-hexene	0.090	0.070	0.050	0.050
	cis-3-hexene	0.030	0.020	0.020	0.020
	cyclohexane	0.220	0.290	0.140	0.130
	cyclohexene	0.030	0.020	0.020	0.020
	methylcyclopentane	1.540	2.010	0.980	0.940
	n-hexane	1.190	1.560	0.760	0.720

	<b>trans-2-hexene</b>	<b>0.170</b>	<b>0.140</b>	<b>0.100</b>	<b>0.100</b>
<b>CNUM</b>	<b>CHEMNAME</b>	<b>Liquid Gasoline</b>			
		<b>MTBE</b>	<b>Non-Oxy</b>	<b>EtOH 2%</b>	<b>EtOH3.5%</b>
	<b>trans-3-hexene</b>	<b>0.090</b>	<b>0.070</b>	<b>0.050</b>	<b>0.050</b>
<b>6</b>	<b>1-hexene</b>	<b>0.060</b>	<b>0.050</b>	<b>0.040</b>	<b>0.030</b>
	<b>1-methylcyclopentene</b>	<b>0.170</b>	<b>0.140</b>	<b>0.100</b>	<b>0.100</b>
	<b>2-methyl-1-pentene</b>	<b>0.110</b>	<b>0.090</b>	<b>0.070</b>	<b>0.060</b>
	<b>2-methyl-2-pentene</b>	<b>0.190</b>	<b>0.150</b>	<b>0.110</b>	<b>0.110</b>
	<b>2-methylpentane</b>	<b>4.170</b>	<b>5.450</b>	<b>2.660</b>	<b>2.540</b>
	<b>2,2-dimethylbutane</b>	<b>0.240</b>	<b>0.310</b>	<b>0.150</b>	<b>0.150</b>
	<b>2,3-dimethyl-1-butene</b>	<b>0.010</b>	<b>0.010</b>	<b>0.010</b>	<b>0.010</b>
	<b>2,3-dimethylbutane</b>	<b>1.310</b>	<b>1.710</b>	<b>0.840</b>	<b>0.800</b>
	<b>3-methyl-cis-2-pentene</b>	<b>0.040</b>	<b>0.030</b>	<b>0.020</b>	<b>0.020</b>
	<b>3-methyl-1-pentene</b>	<b>0.020</b>	<b>0.020</b>	<b>0.010</b>	<b>0.010</b>
	<b>3-methylcyclopentene</b>	<b>0.110</b>	<b>0.090</b>	<b>0.070</b>	<b>0.060</b>
	<b>3-methylpentane</b>	<b>2.330</b>	<b>3.050</b>	<b>1.490</b>	<b>1.420</b>
	<b>4-methyl-trans-2-pentene</b>	<b>0.070</b>	<b>0.060</b>	<b>0.040</b>	<b>0.040</b>
	<b>4-methyl-1-pentene</b>	<b>0.030</b>	<b>0.020</b>	<b>0.020</b>	<b>0.020</b>
<b>7</b>	<b>cis-2-heptene</b>	<b>0.060</b>	<b>0.050</b>	<b>0.040</b>	<b>0.030</b>
	<b>dimethylcyclopentane</b>	<b>0.060</b>	<b>0.090</b>	<b>0.110</b>	<b>0.100</b>
	<b>ethylcyclopentane</b>	<b>0.210</b>	<b>0.330</b>	<b>0.370</b>	<b>0.350</b>
	<b>methylcyclohexane</b>	<b>0.750</b>	<b>1.190</b>	<b>1.320</b>	<b>1.260</b>
	<b>n-heptane</b>	<b>1.640</b>	<b>1.310</b>	<b>1.560</b>	<b>1.490</b>
	<b>toluene</b>	<b>6.690</b>	<b>3.950</b>	<b>5.100</b>	<b>4.870</b>
	<b>trans-2-heptene</b>	<b>0.060</b>	<b>0.050</b>	<b>0.040</b>	<b>0.030</b>
	<b>trans-3-heptene</b>	<b>0.130</b>	<b>0.100</b>	<b>0.080</b>	<b>0.070</b>
	<b>1-c-2-dimethylcyclopentane</b>	<b>0.170</b>	<b>0.270</b>	<b>0.300</b>	<b>0.290</b>
	<b>1-c-3-dimethylcyclopentane</b>	<b>0.490</b>	<b>0.780</b>	<b>0.860</b>	<b>0.820</b>
	<b>1-t-2-dimethylcyclopentane</b>	<b>0.360</b>	<b>0.570</b>	<b>0.630</b>	<b>0.600</b>
	<b>1-t-3-dimethylcyclopentane</b>	<b>0.450</b>	<b>0.710</b>	<b>0.790</b>	<b>0.760</b>
	<b>2-methyl-trans-3-hexene</b>	<b>0.030</b>	<b>0.020</b>	<b>0.020</b>	<b>0.020</b>
	<b>2-methylhexane</b>	<b>2.610</b>	<b>4.140</b>	<b>4.600</b>	<b>4.390</b>
	<b>2,2-dimethylpentane</b>	<b>0.010</b>	<b>0.020</b>	<b>0.020</b>	<b>0.020</b>
	<b>2,2,3-trimethylbutane</b>	<b>0.040</b>	<b>0.060</b>	<b>0.070</b>	<b>0.040</b>
	<b>2,3-dimethylpentane</b>	<b>2.780</b>	<b>4.410</b>	<b>4.900</b>	<b>4.680</b>

	2,4-dimethyl-1-pentene	0.010	0.010	0.010	0.010
7	2,4-dimethylpentane	1.720	2.730	3.030	2.890
CNUM	CHEMNAME	Liquid Gasoline			
		MTBE	Non-Oxy	EtOH 2%	EtOH3.5%
	3-ethyl-2-pentene	0.030	0.020	0.020	0.020
	3-ethylpentane	0.280	0.440	0.490	0.470
	3-methyl-cis-2-hexene	0.160	0.130	0.100	0.090
	3-methyl-cis-3-hexene	0.040	0.030	0.020	0.020
	3-methyl-trans-2-hexene	0.140	0.110	0.080	0.080
	3-methyl-trans-3-hexene	0.050	0.040	0.030	0.030
	3-methylhexane	2.860	4.540	5.040	4.810
	3,3-dimethyl-1-pentene	0.180	0.140	0.110	0.100
	3,3-dimethylpentane	0.160	0.250	0.280	0.270
	3,4-dimethyl-2-pentene	0.020	0.020	0.010	0.010
	4-methyl-trans-2-hexene	0.050	0.040	0.030	0.030
	4-methyl-1-hexene	0.020	0.020	0.010	0.010
	4,4-dimethyl-2-pentene	0.070	0.060	0.040	0.040
	5-methyl-cis-2-hexene	0.010	0.010	0.010	0.010
	5-methyl-1-hexene	0.010	0.010	0.010	0.010
8	c-1,2-dimethylcyclohexane	0.030	0.050	0.050	0.050
	cis-1,3-dimethylcyclohexane	0.070	0.110	0.120	0.120
	cis-2-octene	0.010	0.010	0.010	0.010
	c8 cycloparaffins	0.210	0.330	0.370	0.350
	ethylbenzene	2.150	1.270	1.640	1.560
	m-xylene	3.530	2.080	2.690	2.570
	n-octane	0.630	0.500	0.600	0.570
	o-xylene	2.100	1.240	1.600	1.530
	p-xylene	1.820	1.070	1.390	1.320
	propylcyclopentane	0.040	0.060	0.070	0.070
	t-1,2-dimethylcyclohexane	0.070	0.110	0.120	0.120
	t-2-ethylmethylcyclopentane	0.060	0.090	0.110	0.100
	trans-1,3-dimethylcyclohexane	0.020	0.030	0.030	0.030
	trans-1,4-dimethylcyclohexane	0.070	0.110	0.120	0.120
	trans-2-octene	0.030	0.020	0.020	0.020
	trans-4-octene	0.010	0.010	0.010	0.010

8	unidentified	2.670	2.130	2.540	2.430
	1,1-dimethylcyclohexane	0.010	0.020	0.020	0.020
	1,1-methylethylcyclopentane	0.010	0.020	0.020	0.020
CNUM	CHEMNAME	Liquid Gasoline			
		MTBE	Non-Oxy	EtOH 2%	EtOH3.5%
	1,1,2-trimethylcyclopentane	0.020	0.030	0.030	0.030
	1c,2c,3-trimethylcyclopentane	0.070	0.110	0.120	0.120
	1c,2t,3-trimethylcyclopentane	0.300	0.480	0.530	0.500
	1c,2t,4-trimethylcyclopentane	0.170	0.270	0.300	0.290
	1t,2c,3-trimethylcyclopentane	0.090	0.140	0.160	0.150
	2-methyl-3-ethylpentane	0.050	0.080	0.090	0.080
	2-methylheptane	0.690	1.090	1.220	1.160
	2,2-dimethylhexane	0.140	0.220	0.250	0.230
	2,2,3-trimethylpentane	0.130	0.210	0.230	0.220
	2,2,4-trimethylpentane	5.450	8.650	9.610	9.170
	2,3-dimethylhexane	0.600	0.950	1.060	1.010
	2,3,3-trimethylpentane	1.050	1.670	1.850	1.770
	2,3,4-trimethylpentane	1.420	2.250	2.500	2.390
	2,4-dimethylhexane	0.850	1.350	1.500	1.430
	2,5-dimethylhexane	0.620	0.980	1.090	1.040
	3-ethylhexane	0.060	0.090	0.110	0.100
	3-methyl-3-ethylpentane	0.080	0.130	0.140	0.130
	3-methylheptane	0.740	1.170	1.300	1.240
	3,3-dimethylhexane	0.050	0.080	0.090	0.080
	3,4-dimethylhexane	0.080	0.130	0.140	0.130
	4-methylheptane	0.290	0.460	0.510	0.490
9	c-1,c-3,5-trimethylcyclohexane	0.030	0.050	0.050	0.050
	cis-3-nonene	0.020	0.020	0.010	0.010
	c1,t2,t4-trimethylcyclohexane	0.020	0.030	0.030	0.030
	i-butylcyclopentane	0.140	0.220	0.250	0.230
	indan	0.170	0.100	0.130	0.120
	isopropylbenzene (cumene)	0.060	0.030	0.050	0.040
	isopropylcyclohexane	0.010	0.020	0.020	0.020
	n-butylcyclopentane	0.020	0.030	0.030	0.030
9	n-nonane	0.160	0.130	0.150	0.140

	n-propylbenzene	0.380	0.220	0.290	0.280
	trans-3-nonenene	0.010	0.010	0.010	0.010
	trimethylcyclohexane	0.010	0.020	0.020	0.020
	1-methyl-2-ethylbenzene	0.370	0.220	0.280	0.270
CNUM	CHEMNAME	Liquid Gasoline			
		MTBE	Non-Oxy	EtOH 2%	EtOH3.5%
	1-methyl-3-ethylbenzene	1.340	0.790	1.020	0.970
	1-methyl-4-ethylbenzene	0.570	0.340	0.430	0.410
	1-nonene	0.010	0.010	0.010	0.010
	1,1-methylethylcyclohexane	0.030	0.050	0.050	0.050
	1,1,2-trimethylcyclohexane	0.010	0.020	0.020	0.020
	1,1,3-trimethylcyclohexane	0.010	0.020	0.020	0.020
	1,1,4-trimethylcyclohexane	0.100	0.160	0.180	0.170
	1,2,3-trimethylbenzene	0.320	0.190	0.240	0.230
	1,2,4-trimethylbenzene	1.870	1.100	1.430	1.360
	1,3,5-trimethylbenzene	0.680	0.400	0.520	0.490
	2-methyl-1-octene	0.010	0.010	0.010	0.010
	2-methyloctane	0.210	0.330	0.370	0.350
	2,2,3-trimethylhexane	0.070	0.110	0.120	0.120
	2,2,4-trimethylhexane	0.020	0.030	0.030	0.030
	2,2,5-trimethylhexane	0.690	1.090	1.220	1.160
	2,3-dimethylheptane	0.080	0.130	0.140	0.130
	2,3,4-trimethylhexane	0.110	0.170	0.190	0.180
	2,3,5-trimethylhexane	0.080	0.130	0.140	0.130
	2,4-dimethylheptane	0.010	0.020	0.020	0.020
	2,4,4-trimethylhexane	0.010	0.020	0.020	0.020
	2,5-dimethylheptane	0.150	0.240	0.260	0.250
	3-ethylheptane	0.050	0.080	0.090	0.080
	3-methyloctane	0.230	0.360	0.410	0.390
	3,3-dimethylheptane	0.050	0.080	0.090	0.080
	3,4-dimethylheptane	0.050	0.080	0.090	0.080
	3,5-dimethylheptane	0.020	0.030	0.030	0.030
	4-methyloctane	0.160	0.250	0.280	0.270
9	4,4-dimethylheptane	0.030	0.050	0.050	0.050
10	butylcyclohexane	0.010	0.010	0.010	0.010

	dihydronaphthalene	<b>0.010</b>	<b>0.010</b>	<b>0.010</b>	<b>0.010</b>
	isobutylbenzene	<b>0.040</b>	<b>0.020</b>	<b>0.030</b>	<b>0.030</b>
	n-butylbenzene	<b>0.060</b>	<b>0.030</b>	<b>0.050</b>	<b>0.040</b>
	n-decane	<b>0.060</b>	<b>0.050</b>	<b>0.060</b>	<b>0.050</b>
	naphthalene	<b>0.180</b>	<b>0.110</b>	<b>0.140</b>	<b>0.130</b>
CNUM	CHEMNAME	Liquid Gasoline			
		MTBE	Non-Oxy	EtOH 2%	EtOH3.5%
	sec-butylbenzene	<b>0.030</b>	<b>0.020</b>	<b>0.020</b>	<b>0.020</b>
	1-methyl-2-isopropylbenzene	<b>0.020</b>	<b>0.010</b>	<b>0.010</b>	<b>0.010</b>
	1-methyl-3-isopropylbenzene	<b>0.030</b>	<b>0.020</b>	<b>0.020</b>	<b>0.020</b>
	1-methyl-3n-propylbenzene	<b>0.240</b>	<b>0.140</b>	<b>0.180</b>	<b>0.170</b>
	1-methyl-4-isopropylbenzene	<b>0.010</b>	<b>0.010</b>	<b>0.010</b>	<b>0.010</b>
	1-methyl-4n-propylbenzene	<b>0.130</b>	<b>0.080</b>	<b>0.100</b>	<b>0.090</b>
	1,2-diethylbenzene (ortho)	<b>0.020</b>	<b>0.010</b>	<b>0.010</b>	<b>0.010</b>
	1,2-dimethyl-3-ethylbenzene	<b>0.050</b>	<b>0.030</b>	<b>0.040</b>	<b>0.040</b>
	1,2-dimethyl-4-ethylbenzene	<b>0.280</b>	<b>0.160</b>	<b>0.210</b>	<b>0.200</b>
	1,2,3,5-tetramethylbenzene	<b>0.150</b>	<b>0.090</b>	<b>0.110</b>	<b>0.110</b>
	1,2,4,5-tetramethylbenzene	<b>0.110</b>	<b>0.060</b>	<b>0.080</b>	<b>0.080</b>
	1,3-diethylbenzene (meta)	<b>0.110</b>	<b>0.060</b>	<b>0.080</b>	<b>0.080</b>
	1,3-dimethyl-2-ethylbenzene	<b>0.010</b>	<b>0.010</b>	<b>0.010</b>	<b>0.010</b>
	1,3-dimethyl-4-ethylbenzene	<b>0.140</b>	<b>0.080</b>	<b>0.110</b>	<b>0.100</b>
	1,3-dimethyl-5-ethylbenzene	<b>0.220</b>	<b>0.130</b>	<b>0.170</b>	<b>0.160</b>
	1,4-dimethyl-2-ethylbenzene	<b>0.150</b>	<b>0.090</b>	<b>0.110</b>	<b>0.110</b>
	2-methylindan	<b>0.130</b>	<b>0.080</b>	<b>0.100</b>	<b>0.090</b>
	2-methylnonane	<b>0.070</b>	<b>0.060</b>	<b>0.070</b>	<b>0.060</b>
	2,2-dimethyloctane	<b>0.010</b>	<b>0.010</b>	<b>0.010</b>	<b>0.010</b>
	2,3-dimethyl-2-octene	<b>0.010</b>	<b>0.010</b>	<b>0.010</b>	<b>0.010</b>
	2,4-dimethyloctane	<b>0.030</b>	<b>0.020</b>	<b>0.030</b>	<b>0.030</b>
	2,5-dimethyloctane	<b>0.050</b>	<b>0.040</b>	<b>0.050</b>	<b>0.040</b>
	2,6-dimethyloctane	<b>0.020</b>	<b>0.020</b>	<b>0.020</b>	<b>0.020</b>
	3-ethyloctane	<b>0.010</b>	<b>0.010</b>	<b>0.010</b>	<b>0.010</b>
	3-methylnonane	<b>0.070</b>	<b>0.060</b>	<b>0.070</b>	<b>0.060</b>
10	3,3-dimethyloctane	<b>0.040</b>	<b>0.030</b>	<b>0.040</b>	<b>0.040</b>
	3,6-dimethyloctane	<b>0.010</b>	<b>0.010</b>	<b>0.010</b>	<b>0.010</b>
	4-methylindan	<b>0.030</b>	<b>0.020</b>	<b>0.020</b>	<b>0.020</b>

	<b>5-methylindan</b>	<b>0.120</b>	<b>0.070</b>	<b>0.090</b>	<b>0.090</b>
	<b>5-methylnonane</b>	<b>0.030</b>	<b>0.020</b>	<b>0.030</b>	<b>0.030</b>
<b>11</b>	<b>c11 dialkyl benzenes</b>	<b>0.030</b>	<b>0.020</b>	<b>0.020</b>	<b>0.020</b>
	<b>n-undecane</b>	<b>0.030</b>	<b>0.020</b>	<b>0.030</b>	<b>0.030</b>
	<b>pentamethylbenzene</b>	<b>0.020</b>	<b>0.010</b>	<b>0.010</b>	<b>0.010</b>
	<b>s-pentylbenzene</b>	<b>0.030</b>	<b>0.020</b>	<b>0.020</b>	<b>0.020</b>
<b>CNUM</b>	<b>CHEMNAME</b>	<b>Liquid Gasoline</b>			
		<b>MTBE</b>	<b>Non-Oxy</b>	<b>EtOH 2%</b>	<b>EtOH3.5%</b>
	<b>1-ethyl-2n-propylbenzene</b>	<b>0.050</b>	<b>0.030</b>	<b>0.040</b>	<b>0.040</b>
	<b>1-methyl-4-t-butylbenzene</b>	<b>0.020</b>	<b>0.010</b>	<b>0.010</b>	<b>0.010</b>
	<b>1-methylnaphthalene</b>	<b>0.060</b>	<b>0.030</b>	<b>0.050</b>	<b>0.040</b>
	<b>2-methylnaphthalene</b>	<b>0.140</b>	<b>0.080</b>	<b>0.110</b>	<b>0.100</b>
	<b>3-ethylnonane</b>	<b>0.010</b>	<b>0.010</b>	<b>0.010</b>	<b>0.010</b>
<b>12</b>	<b>c12 dialkyl benzenes</b>	<b>0.010</b>	<b>0.010</b>	<b>0.010</b>	<b>0.010</b>
	<b>n-dodecane</b>	<b>0.030</b>	<b>0.020</b>	<b>0.030</b>	<b>0.030</b>
	<b>n-hexylbenzene</b>	<b>0.010</b>	<b>0.010</b>	<b>0.010</b>	<b>0.010</b>
	<b>1-methyl-4-n-pentylbenzene</b>	<b>0.040</b>	<b>0.020</b>	<b>0.030</b>	<b>0.030</b>
	<b>1,2-isodipropylbenzene</b>	<b>0.040</b>	<b>0.020</b>	<b>0.030</b>	<b>0.030</b>
	<b>1,2,4-triethylbenzene</b>	<b>0.010</b>	<b>0.010</b>	<b>0.010</b>	<b>0.010</b>
	<b>1,3-dipropylbenzene</b>	<b>0.040</b>	<b>0.020</b>	<b>0.030</b>	<b>0.030</b>
	<b>1,3-n-dipropylbenzene</b>	<b>0.030</b>	<b>0.020</b>	<b>0.020</b>	<b>0.020</b>
	<b>1,3,5-triethylbenzene</b>	<b>0.010</b>	<b>0.010</b>	<b>0.010</b>	<b>0.010</b>
	<b>Total</b>	<b>100.000</b>	<b>100.000</b>	<b>99.980</b>	<b>99.960</b>
		<b>Headspace Vapors</b>			
		<b>MTBE</b>	<b>Non-Oxy</b>	<b>EtOH 2%</b>	<b>EtOH 3.5%</b>
<b>CNUM</b>	<b>CHEMNAME</b>				
<b>1</b>	<b>methyl alcohol</b>	<b>0.000</b>	<b>0.080</b>	<b>0.040</b>	<b>0.020</b>
<b>2</b>	<b>ethyl alcohol</b>	<b>0.000</b>	<b>0.000</b>	<b>9.350</b>	<b>9.560</b>
<b>3</b>	<b>n-propyl alcohol</b>	<b>0.000</b>	<b>0.030</b>	<b>0.010</b>	<b>0.010</b>
	<b>propane</b>	<b>0.280</b>	<b>0.000</b>	<b>0.000</b>	<b>0.000</b>
<b>4</b>	<b>cis-2-butene</b>	<b>0.340</b>	<b>0.070</b>	<b>0.060</b>	<b>0.060</b>
	<b>isobutane</b>	<b>1.300</b>	<b>1.740</b>	<b>2.920</b>	<b>2.920</b>
	<b>isobutene</b>	<b>0.160</b>	<b>0.000</b>	<b>0.000</b>	<b>0.000</b>
	<b>n-butane</b>	<b>6.290</b>	<b>7.420</b>	<b>10.310</b>	<b>10.360</b>
	<b>trans-2-butene</b>	<b>0.590</b>	<b>0.070</b>	<b>0.070</b>	<b>0.070</b>

	1-butene	0.120	0.090	0.090	0.090
5	cis-2-pentene	0.300	0.470	0.470	0.450
	cyclopentane	0.980	0.320	0.220	0.210
	cyclopentene	0.090	0.120	0.120	0.110
	isopentane	34.880	46.780	32.030	32.170
	isoprene	0.000	0.020	0.020	0.020
	methyl t-butyl ether (MTBE)	16.830	0.000	0.000	0.000
CNUM	CHEMNAME	Headspace Vapors			
		MTBE	Non-Oxy	EtOH 2%	EtOH3.5%
	n-pentane	7.280	6.540	4.480	4.500
	trans-1,3-pentadiene	0.000	0.050	0.050	0.050
	trans-2-pentene	0.730	0.880	0.870	0.830
	1-pentene	0.220	0.330	0.320	0.310
	1,3-cyclopentadiene	0.000	0.020	0.020	0.020
	2-methyl-1-butene	0.410	0.600	0.590	0.570
	2-methyl-2-butene	1.020	1.240	1.230	1.170
	2,2-dimethylpropane	0.000	0.090	0.060	0.060
	3-methyl-1-butene	0.080	0.070	0.070	0.070
6	benzene	0.360	0.690	0.800	0.800
	cis-2-hexene	0.040	0.060	0.060	0.060
	cis-3-hexene	0.050	0.020	0.020	0.020
	cyclohexane	0.960	0.170	0.110	0.110
	cyclohexene	0.000	0.020	0.020	0.020
	methylcyclopentane	2.640	1.610	1.100	1.050
	n-hexane	1.440	1.380	0.940	0.950
6	t-amylmethylether (TAME)	0.010	0.000	0.000	0.000
	trans-2-hexene	0.090	0.120	0.120	0.120
	trans-3-hexene	0.000	0.070	0.060	0.060
	1-hexene	0.030	0.050	0.050	0.050
	1-methylcyclopentene	0.000	0.120	0.120	0.120
	2-ethyl-1-butene	0.020	0.000	0.000	0.000
	2-hexenes	0.030	0.000	0.000	0.000
	2-methyl-1-pentene	0.060	0.090	0.090	0.090
	2-methyl-2-pentene	0.180	0.140	0.140	0.130
	2-methylpentane	5.570	6.540	4.480	4.500

	2,2-dimethylbutane	1.550	0.550	0.380	0.380
	2,3-dimethyl-1-butene	0.000	0.010	0.010	0.010
	2,3-dimethylbutane	1.950	2.260	1.550	1.550
	3-methyl-cis-2-pentene	0.040	0.030	0.030	0.030
	3-methyl-trans-2-pentene	0.060	0.000	0.000	0.000
	3-methyl-1-pentene	0.000	0.020	0.020	0.020
	3-methylcyclopentene	0.000	0.080	0.080	0.080
	3-methylpentane	3.060	3.260	2.230	2.240
CNUM	CHEMNAME	Headspace Vapors			
		MTBE	Non-Oxy	EtOH 2%	EtOH3.5%
	4-methyl-cis-2-pentene	0.020	0.000	0.000	0.000
	4-methyl-trans-2-pentene	0.100	0.080	0.080	0.070
	4-methyl-1-pentene	0.030	0.030	0.030	0.020
7	cis-2-heptene	0.000	0.020	0.020	0.020
	dimethylcyclopentane	0.000	0.040	0.070	0.060
	ethylcyclopentane	0.000	0.080	0.130	0.120
	methylcyclohexane	0.380	0.340	0.530	0.500
	n-heptane	0.390	0.380	0.630	0.630
	toluene	1.590	0.860	1.310	1.240
	trans-2-heptene	0.000	0.020	0.020	0.020
	trans-3-heptene	0.000	0.040	0.040	0.030
	1-c-2-dimethylcyclopentane	0.000	0.080	0.120	0.120
	1-c-3-dimethylcyclopentane	0.000	0.290	0.460	0.430
	1-t-2-dimethylcyclopentane	0.000	0.220	0.350	0.330
7	1-t-3-dimethylcyclopentane	0.000	0.270	0.420	0.400
	2-methyl-trans-3-hexene	0.000	0.010	0.010	0.010
	2-methylhexane	0.670	1.670	2.610	2.620
	2,2-dimethylpentane	0.060	0.010	0.010	0.010
	2,2,3-trimethylbutane	0.000	0.040	0.060	0.060
	2,3-dimethylpentane	0.650	1.850	2.890	2.900
	2,4-dimethylpentane	0.510	1.600	2.490	2.510
	3-ethyl-2-pentene	0.000	0.010	0.010	0.010
	3-ethylpentane	0.040	0.160	0.250	0.250
	3-methyl-cis-2-hexene	0.000	0.040	0.040	0.040
	3-methyl-cis-3-hexene	0.000	0.010	0.010	0.010

	<b>3-methyl-trans-2-hexene</b>	<b>0.000</b>	<b>0.040</b>	<b>0.040</b>	<b>0.040</b>
	<b>3-methyl-trans-3-hexene</b>	<b>0.000</b>	<b>0.010</b>	<b>0.010</b>	<b>0.010</b>
	<b>3-methylhexane</b>	<b>0.740</b>	<b>1.720</b>	<b>2.670</b>	<b>2.680</b>
	<b>3,3-dimethyl-1-pentene</b>	<b>0.000</b>	<b>0.050</b>	<b>0.050</b>	<b>0.050</b>
	<b>3,3-dimethylpentane</b>	<b>0.000</b>	<b>0.160</b>	<b>0.250</b>	<b>0.250</b>
	<b>3,4-dimethyl-2-pentene</b>	<b>0.000</b>	<b>0.010</b>	<b>0.010</b>	<b>0.010</b>
	<b>4-methyl-trans-2-hexene</b>	<b>0.000</b>	<b>0.010</b>	<b>0.010</b>	<b>0.010</b>
	<b>4-methyl-1-hexene</b>	<b>0.000</b>	<b>0.010</b>	<b>0.010</b>	<b>0.010</b>
	<b>4,4-dimethyl-2-pentene</b>	<b>0.000</b>	<b>0.020</b>	<b>0.020</b>	<b>0.020</b>
<b>CNUM</b>	<b>CHEMNAME</b>	<b>Headspace Vapors</b>			
		<b>MTBE</b>	<b>Non-Oxy</b>	<b>EtOH 2%</b>	<b>EtOH3.5%</b>
<b>8</b>	<b>c-1,2-dimethylcyclohexane</b>	<b>0.010</b>	<b>0.000</b>	<b>0.010</b>	<b>0.010</b>
	<b>cis-1,3-dimethylcyclohexane</b>	<b>0.000</b>	<b>0.020</b>	<b>0.020</b>	<b>0.020</b>
	<b>c8 cycloparaffins</b>	<b>0.000</b>	<b>0.030</b>	<b>0.050</b>	<b>0.050</b>
	<b>ethylbenzene</b>	<b>0.110</b>	<b>0.100</b>	<b>0.150</b>	<b>0.140</b>
	<b>ethylcyclohexane</b>	<b>0.070</b>	<b>0.000</b>	<b>0.000</b>	<b>0.000</b>
	<b>m-xylene</b>	<b>0.320</b>	<b>0.140</b>	<b>0.220</b>	<b>0.210</b>
	<b>n-octane</b>	<b>0.050</b>	<b>0.050</b>	<b>0.080</b>	<b>0.080</b>
	<b>o-xylene</b>	<b>0.120</b>	<b>0.070</b>	<b>0.110</b>	<b>0.100</b>
	<b>p-xylene</b>	<b>0.100</b>	<b>0.080</b>	<b>0.120</b>	<b>0.110</b>
	<b>propylcyclopentane</b>	<b>0.000</b>	<b>0.010</b>	<b>0.010</b>	<b>0.010</b>
	<b>t-1,2-dimethylcyclohexane</b>	<b>0.000</b>	<b>0.010</b>	<b>0.020</b>	<b>0.020</b>
	<b>t-2-ethylmethylcyclopentane</b>	<b>0.000</b>	<b>0.010</b>	<b>0.010</b>	<b>0.010</b>
<b>8</b>	<b>trans-1,3-dimethylcyclohexane</b>	<b>0.000</b>	<b>0.000</b>	<b>0.010</b>	<b>0.010</b>
	<b>trans-1,4-dimethylcyclohexane</b>	<b>0.000</b>	<b>0.020</b>	<b>0.030</b>	<b>0.020</b>
	<b>unidentified</b>	<b>1.160</b>	<b>0.000</b>	<b>0.000</b>	<b>0.000</b>
	<b>1,1,2-trimethylcyclopentane</b>	<b>0.000</b>	<b>0.010</b>	<b>0.010</b>	<b>0.010</b>
	<b>1c,2c,3-trimethylcyclopentane</b>	<b>0.000</b>	<b>0.010</b>	<b>0.020</b>	<b>0.020</b>
	<b>1c,2t,3-trimethylcyclopentane</b>	<b>0.000</b>	<b>0.050</b>	<b>0.070</b>	<b>0.070</b>
	<b>1c,2t,4-trimethylcyclopentane</b>	<b>0.000</b>	<b>0.060</b>	<b>0.090</b>	<b>0.080</b>
	<b>1t,2c,3-trimethylcyclopentane</b>	<b>0.000</b>	<b>0.010</b>	<b>0.020</b>	<b>0.020</b>
	<b>2-methyl-3-ethylpentane</b>	<b>0.090</b>	<b>0.010</b>	<b>0.020</b>	<b>0.020</b>
	<b>2-methylheptane</b>	<b>0.120</b>	<b>0.150</b>	<b>0.230</b>	<b>0.230</b>
	<b>2,2-dimethylhexane</b>	<b>0.010</b>	<b>0.050</b>	<b>0.080</b>	<b>0.080</b>
	<b>2,2,3-trimethylpentane</b>	<b>0.040</b>	<b>0.040</b>	<b>0.070</b>	<b>0.070</b>

	<b>2,2,4-trimethylpentane</b>	<b>1.210</b>	<b>2.640</b>	<b>4.110</b>	<b>4.130</b>
	<b>2,3-dimethylhexane</b>	<b>0.010</b>	<b>0.150</b>	<b>0.230</b>	<b>0.230</b>
	<b>2,3,3-trimethylpentane</b>	<b>0.310</b>	<b>0.290</b>	<b>0.450</b>	<b>0.450</b>
	<b>2,3,4-trimethylpentane</b>	<b>0.310</b>	<b>0.390</b>	<b>0.610</b>	<b>0.620</b>
	<b>2,4-dimethylhexane</b>	<b>0.130</b>	<b>0.260</b>	<b>0.410</b>	<b>0.410</b>
	<b>2,5-dimethylhexane</b>	<b>0.120</b>	<b>0.190</b>	<b>0.300</b>	<b>0.300</b>
	<b>3-ethylhexane</b>	<b>0.000</b>	<b>0.010</b>	<b>0.020</b>	<b>0.020</b>
	<b>3-methyl-3-ethylpentane</b>	<b>0.000</b>	<b>0.020</b>	<b>0.040</b>	<b>0.040</b>
	<b>3-methylheptane</b>	<b>0.120</b>	<b>0.150</b>	<b>0.240</b>	<b>0.240</b>
	<b>3,3-dimethylhexane</b>	<b>0.010</b>	<b>0.010</b>	<b>0.020</b>	<b>0.020</b>
<b>CNUM</b>	<b>CHEMNAME</b>	<b>Headspace Vapors</b>			
		<b>MTBE</b>	<b>Non-Oxy</b>	<b>EtOH 2%</b>	<b>EtOH3.5%</b>
	<b>3,4-dimethylhexane</b>	<b>0.000</b>	<b>0.020</b>	<b>0.030</b>	<b>0.030</b>
	<b>4-methylheptane</b>	<b>0.060</b>	<b>0.060</b>	<b>0.100</b>	<b>0.100</b>
<b>9</b>	<b>i-butylcyclopentane</b>	<b>0.000</b>	<b>0.010</b>	<b>0.010</b>	<b>0.010</b>
	<b>isopropylbenzene (cumene)</b>	<b>0.010</b>	<b>0.000</b>	<b>0.000</b>	<b>0.000</b>
	<b>m-ethyltoluene (99912)</b>	<b>0.040</b>	<b>0.000</b>	<b>0.000</b>	<b>0.000</b>
	<b>n-nonane</b>	<b>0.010</b>	<b>0.000</b>	<b>0.010</b>	<b>0.010</b>
	<b>n-propylbenzene</b>	<b>0.000</b>	<b>0.010</b>	<b>0.010</b>	<b>0.010</b>
	<b>o-ethyltoluene (99915)</b>	<b>0.010</b>	<b>0.000</b>	<b>0.000</b>	<b>0.000</b>
	<b>p-ethyltoluene (99914)</b>	<b>0.020</b>	<b>0.000</b>	<b>0.000</b>	<b>0.000</b>
	<b>1-methyl-2-ethylbenzene</b>	<b>0.000</b>	<b>0.010</b>	<b>0.010</b>	<b>0.010</b>
<b>9</b>	<b>1-methyl-3-ethylbenzene</b>	<b>0.000</b>	<b>0.020</b>	<b>0.030</b>	<b>0.030</b>
	<b>1-methyl-4-ethylbenzene</b>	<b>0.000</b>	<b>0.010</b>	<b>0.010</b>	<b>0.010</b>
	<b>1,1,4-trimethylcyclohexane</b>	<b>0.000</b>	<b>0.000</b>	<b>0.010</b>	<b>0.010</b>
	<b>1,2,3-trimethylbenzene</b>	<b>0.010</b>	<b>0.000</b>	<b>0.000</b>	<b>0.000</b>
	<b>1,2,4-trimethylbenzene</b>	<b>0.000</b>	<b>0.020</b>	<b>0.030</b>	<b>0.030</b>
	<b>1,3,5-trimethylbenzene</b>	<b>0.000</b>	<b>0.010</b>	<b>0.020</b>	<b>0.010</b>
	<b>2-methyloctane</b>	<b>0.000</b>	<b>0.020</b>	<b>0.020</b>	<b>0.020</b>
	<b>2,2,3-trimethylhexane</b>	<b>0.000</b>	<b>0.010</b>	<b>0.010</b>	<b>0.010</b>
	<b>2,2,4-trimethylhexane</b>	<b>0.000</b>	<b>0.000</b>	<b>0.000</b>	<b>0.010</b>
	<b>2,2,5-trimethylhexane</b>	<b>0.140</b>	<b>0.120</b>	<b>0.190</b>	<b>0.190</b>
	<b>2,3-dimethylheptane</b>	<b>0.000</b>	<b>0.010</b>	<b>0.010</b>	<b>0.010</b>
	<b>2,3,4-trimethylhexane</b>	<b>0.000</b>	<b>0.020</b>	<b>0.020</b>	<b>0.020</b>
	<b>2,3,5-trimethylhexane</b>	<b>0.000</b>	<b>0.010</b>	<b>0.020</b>	<b>0.020</b>

	<b>2,5-dimethylheptane</b>	<b>0.000</b>	<b>0.020</b>	<b>0.030</b>	<b>0.030</b>
	<b>3-ethylheptane</b>	<b>0.000</b>	<b>0.000</b>	<b>0.010</b>	<b>0.010</b>
	<b>3-methyloctane</b>	<b>0.000</b>	<b>0.020</b>	<b>0.030</b>	<b>0.030</b>
	<b>3,3-dimethylheptane</b>	<b>0.000</b>	<b>0.010</b>	<b>0.010</b>	<b>0.010</b>
	<b>3,4-dimethylheptane</b>	<b>0.000</b>	<b>0.010</b>	<b>0.010</b>	<b>0.010</b>
	<b>4-methyloctane</b>	<b>0.000</b>	<b>0.010</b>	<b>0.020</b>	<b>0.020</b>
	<b>4,4-dimethylheptane</b>	<b>0.000</b>	<b>0.000</b>	<b>0.010</b>	<b>0.010</b>
12	<b>1,2,4-triethylbenzene</b>	<b>0.040</b>	<b>0.000</b>	<b>0.000</b>	<b>0.000</b>
	<b>1,3,5-triethylbenzene</b>	<b>0.020</b>	<b>0.000</b>	<b>0.000</b>	<b>0.000</b>

CNUM	CHEMNAME	Catalyst Start Exhaust			
		MTBE	Non-Oxy	EtOH 2%	EtOH 3.5%
1	formaldehyde	1.310	1.170	1.230	1.190
	methane	5.280	4.790	4.820	5.200
	methyl alcohol	1.230	0.000	0.000	0.280
2	acetaldehyde	0.400	0.380	0.510	0.910
	acetylene	4.130	3.740	3.770	4.070
	ethane	0.740	0.670	0.670	0.730
	ethyl alcohol	0.090	0.000	3.000	5.280
	ethylene	6.450	5.850	5.880	6.360
3	acetone	0.340	0.310	0.310	0.330
	acrolein (2-propenal)	0.110	0.100	0.100	0.110
	propane	0.070	0.060	0.060	0.070
	propionaldehyde	0.060	0.050	0.050	0.060
	propylene	3.250	2.950	2.960	3.200
	1-propyne	0.320	0.290	0.290	0.310
	1,2-propadiene	0.230	0.210	0.210	0.230
4	butyraldehyde	0.060	0.050	0.050	0.060
	cis-2-butene	0.220	0.200	0.200	0.220
	crotonaldehyde	0.050	0.040	0.050	0.050
	isobutane	0.020	0.020	0.020	0.020
	isobutene	2.860	1.370	1.380	2.820
	methyl ethyl ketone (MEK)	0.060	0.050	0.050	0.060
	n-butane	0.560	0.510	0.510	0.550
	trans-2-butene	0.240	0.220	0.220	0.240
	vinyacetylene	0.120	0.110	0.110	0.120
	1-butene	0.530	0.480	0.480	0.280
	1,2-butadiene	0.030	0.030	0.030	0.030
	1,3-butadiene	0.700	0.690	0.690	0.680
	1,3-butadiyne	0.020	0.020	0.020	0.020
	2-methyl-2-propenal	0.100	0.090	0.090	0.100
5	cis-2-pentene	0.120	0.110	0.110	0.120
	cyclopentane	0.410	0.370	0.370	0.400

	cyclopentene	0.220	0.200	0.200	0.220
CNUM	CHEMNAME	Catalyst Start Exhaust			
		MTBE	Non-Oxy	EtOH 2%	EtOH 3.5%
5	isopentane	5.360	5.360	4.890	5.280
	isoprene	0.210	0.190	0.190	0.210
	isovaleraldehyde	0.030	0.030	0.030	0.030
	methyl t-butyl ether (MTBE)	3.020	0.000	0.000	0.000
	n-pentane	2.380	2.380	2.170	2.350
	trans-1,3-pentadiene	0.030	0.030	0.030	0.030
	trans-2-pentene	0.260	0.240	0.240	0.260
	1-pentene	0.140	0.130	0.130	0.140
	2-methyl-1-butene	0.280	0.250	0.250	0.280
	2-methyl-2-butene	0.440	0.400	0.400	0.430
	3-methyl-1-butene	0.220	0.200	0.200	0.220
6	benzene	2.470	2.170	2.370	2.430
	cis-2-hexene	0.060	0.050	0.050	0.060
	cyclohexane	0.740	0.740	0.670	0.730
	cyclohexene	0.070	0.060	0.060	0.070
	c6 aldehydes	0.020	0.020	0.020	0.020
	methylcyclopentane	2.920	2.920	2.660	2.880
	n-hexane	1.740	1.740	1.590	1.710
	trans-2-hexene	0.180	0.160	0.160	0.180
	trans-3-hexene	0.070	0.060	0.060	0.070
	1-hexene	0.100	0.090	0.090	0.100
	2-methyl-1-pentene	0.060	0.050	0.050	0.060
	2-methyl-2-pentene	0.100	0.090	0.090	0.100
	2-methylpentane	3.680	3.680	3.360	3.630
	2,2-dimethylbutane	0.560	0.560	0.510	0.550
	2,3-dimethyl-1-butene	0.010	0.010	0.010	0.010
	2,3-dimethylbutane	0.980	0.980	0.890	0.970
	3-methyl-trans-2-pentene	0.010	0.010	0.010	0.010
	3-methyl-1-pentene	0.080	0.070	0.070	0.080
	3-methylcyclopentene	0.100	0.090	0.090	0.100
	3-methylpentane	2.230	2.230	2.030	2.200
	3,3-dimethyl-1-butene	0.020	0.020	0.020	0.020

6	4-methyl-trans-2-pentene	0.060	0.050	0.050	0.060	
	4-methyl-1-pentene	0.030	0.030	0.030	0.030	
CNUM	CHEMNAME	Catalyst Start Exhaust				
		MTBE	Non-Oxy	EtOH 2%	EtOH 3.5%	
7	benzaldehyde	0.230	0.210	0.210	0.230	
	cis-2-heptene	0.040	0.040	0.040	0.040	
	ethylcyclopentane	0.220	0.400	0.370	0.220	
	methylcyclohexane	0.790	1.430	1.320	0.780	
	n-heptane	0.660	0.600	0.600	0.650	
	toluene	7.250	6.570	6.610	7.140	
	trans-2-heptene	0.040	0.040	0.040	0.040	
	trans-3-heptene	0.060	0.050	0.050	0.060	
	1-c-3-dimethylcyclopentane	0.300	0.540	0.500	0.300	
	1-t-3-dimethylcyclopentane	0.330	0.600	0.550	0.320	
	2-methyl-trans-3-hexene	0.010	0.010	0.010	0.010	
	2-methyl-2-hexene	0.040	0.040	0.040	0.040	
	2-methylhexane	0.030	0.050	0.050	0.030	
	2,2,3-trimethylbutane	0.020	0.040	0.030	0.020	
	2,3-dimethyl-2-pentene	0.020	0.020	0.020	0.020	
	2,3-dimethylpentane	1.720	3.120	2.880	1.690	
	2,4-dimethyl-1-pentene	0.010	0.010	0.010	0.010	
	2,4-dimethyl-2-pentene	0.050	0.040	0.050	0.050	
	2,4-dimethylpentane	0.540	0.980	0.910	0.530	
	3-ethylpentane	0.330	0.600	0.550	0.320	
	3-methyl-cis-2-hexene	0.040	0.040	0.040	0.040	
	3-methyl-trans-3-hexene	0.010	0.010	0.010	0.010	
	3-methylhexane	0.920	1.670	1.540	0.910	
	3,3-dimethylpentane	0.020	0.040	0.030	0.020	
	3,4-dimethyl-1-pentene	0.010	0.010	0.010	0.010	
	4-methyl-trans-2-hexene	0.020	0.020	0.020	0.020	
8	c-1-methyl-3-ethylcyclopentane	0.090	0.160	0.150	0.090	
	c-1,2-dimethylcyclohexane	0.010	0.020	0.020	0.010	
	cis-1,3-dimethylcyclohexane	0.050	0.090	0.080	0.050	
	cis-2-octene	0.010	0.010	0.010	0.010	
8	ethylbenzene	1.540	1.400	1.400	1.520	

	ethylcyclohexane	0.020	0.040	0.030	0.020
	m-xylene	5.170	4.690	4.710	5.090
	n-octane	0.550	0.500	0.500	0.540
CNUM	CHEMNAME	Catalyst Start Exhaust			
		MTBE	Non-Oxy	EtOH 2%	EtOH 3.5%
	o-xylene	1.780	1.610	1.620	1.750
	styrene	0.250	0.230	0.230	0.250
	t-1-methyl-3-ethylcyclopentane	0.160	0.290	0.270	0.160
	tolualdehyde	0.200	0.180	0.180	0.200
	trans-1,3-dimethylcyclohexane	0.070	0.130	0.120	0.070
	trans-1,4-dimethylcyclohexane	0.140	0.250	0.230	0.140
	trans-2-octene	0.010	0.010	0.010	0.010
	unidentified	0.450	0.410	0.410	0.440
	1-octene	0.020	0.020	0.020	0.020
	1,2,4-trimethylcyclopentene	0.210	0.380	0.350	0.210
	1c,2t,3-trimethylcyclopentane	0.090	0.160	0.150	0.090
	2-methylheptane	0.480	0.870	0.800	0.470
	2,2-dimethylhexane	0.100	0.180	0.170	0.100
	2,2,4-trimethylpentane	1.920	3.480	3.220	1.890
	2,3-dimethylhexane	0.380	0.690	0.640	0.380
	2,3,4-trimethylpentane	0.770	1.400	1.290	0.760
	2,4-dimethylhexane	0.380	0.690	0.640	0.380
	2,5-dimethylhexane	0.430	0.780	0.720	0.420
	3-methylheptane	0.820	1.490	1.380	0.810
	3,3-dimethylhexane	0.010	0.020	0.020	0.010
	4-methylheptane	0.270	0.490	0.450	0.270
9	indan	0.150	0.140	0.140	0.150
	isopropylbenzene (cumene)	0.060	0.050	0.050	0.060
	n-nonane	0.290	0.260	0.260	0.290
	n-propylbenzene	0.380	0.340	0.350	0.380
	1-methyl-2-ethylbenzene	0.450	0.410	0.410	0.440
	1-methyl-3-ethylbenzene	1.230	1.110	1.120	1.210
	1-methyl-4-ethylbenzene	0.530	0.480	0.480	0.520
9	1-methyl-4-ethylcyclohexane	0.060	0.110	0.100	0.060
	1-nonene	0.060	0.050	0.050	0.060

	<b>1,2,3-trimethylbenzene</b>	<b>0.290</b>	<b>0.260</b>	<b>0.260</b>	<b>0.290</b>
	<b>1,2,4-trimethylbenzene</b>	<b>1.520</b>	<b>1.380</b>	<b>1.390</b>	<b>1.500</b>
	<b>1,3,5-trimethylbenzene</b>	<b>0.610</b>	<b>0.550</b>	<b>0.560</b>	<b>0.600</b>
	<b>1,3,5-trimethylcyclohexane</b>	<b>0.110</b>	<b>0.200</b>	<b>0.180</b>	<b>0.110</b>
<b>CNUM</b>	<b>CHEMNAME</b>	<b>Catalyst Start Exhaust</b>			
		<b>MTBE</b>	<b>Non-Oxy</b>	<b>EtOH 2%</b>	<b>EtOH 3.5%</b>
	<b>2-methyloctane</b>	<b>0.050</b>	<b>0.090</b>	<b>0.080</b>	<b>0.050</b>
	<b>2,2,4-trimethylhexane</b>	<b>0.110</b>	<b>0.200</b>	<b>0.180</b>	<b>0.110</b>
	<b>2,2,5-trimethylhexane</b>	<b>0.390</b>	<b>0.710</b>	<b>0.650</b>	<b>0.380</b>
	<b>2,3-dimethylheptane</b>	<b>0.020</b>	<b>0.040</b>	<b>0.030</b>	<b>0.020</b>
	<b>2,3,5-trimethylhexane</b>	<b>0.060</b>	<b>0.110</b>	<b>0.100</b>	<b>0.060</b>
	<b>2,4-dimethylheptane</b>	<b>0.120</b>	<b>0.220</b>	<b>0.200</b>	<b>0.120</b>
	<b>2,4,4-trimethylhexane</b>	<b>0.020</b>	<b>0.040</b>	<b>0.030</b>	<b>0.020</b>
	<b>2,6-dimethylheptane</b>	<b>0.290</b>	<b>0.530</b>	<b>0.490</b>	<b>0.290</b>
	<b>3-methyloctane</b>	<b>0.400</b>	<b>0.720</b>	<b>0.670</b>	<b>0.390</b>
	<b>3,4-dimethylheptane</b>	<b>0.090</b>	<b>0.160</b>	<b>0.150</b>	<b>0.090</b>
	<b>3,5-dimethylheptane</b>	<b>0.220</b>	<b>0.400</b>	<b>0.370</b>	<b>0.220</b>
	<b>4-methyloctane</b>	<b>0.340</b>	<b>0.620</b>	<b>0.570</b>	<b>0.330</b>
10	<b>isobutylbenzene</b>	<b>0.030</b>	<b>0.030</b>	<b>0.030</b>	<b>0.030</b>
	<b>n-decane</b>	<b>0.130</b>	<b>0.120</b>	<b>0.120</b>	<b>0.130</b>
	<b>naphthalene</b>	<b>0.070</b>	<b>0.060</b>	<b>0.060</b>	<b>0.070</b>
	<b>1-methyl-2-isopropylbenzene</b>	<b>0.090</b>	<b>0.080</b>	<b>0.080</b>	<b>0.090</b>
	<b>1-methyl-2n-propylbenzene</b>	<b>0.060</b>	<b>0.050</b>	<b>0.050</b>	<b>0.060</b>
	<b>1-methyl-3-isopropylbenzene</b>	<b>0.070</b>	<b>0.060</b>	<b>0.060</b>	<b>0.070</b>
	<b>1-methyl-3n-propylbenzene</b>	<b>0.220</b>	<b>0.200</b>	<b>0.200</b>	<b>0.220</b>
	<b>1-methyl-4-isopropylbenzene</b>	<b>0.020</b>	<b>0.020</b>	<b>0.020</b>	<b>0.020</b>
	<b>1,2-diethylbenzene (ortho)</b>	<b>0.020</b>	<b>0.020</b>	<b>0.020</b>	<b>0.020</b>
	<b>1,2-dimethyl-3-ethylbenzene</b>	<b>0.040</b>	<b>0.040</b>	<b>0.040</b>	<b>0.040</b>
	<b>1,2-dimethyl-4-ethylbenzene</b>	<b>0.170</b>	<b>0.150</b>	<b>0.150</b>	<b>0.170</b>
	<b>1,2,3,4-tetramethylbenzene</b>	<b>0.050</b>	<b>0.040</b>	<b>0.050</b>	<b>0.050</b>
	<b>1,2,3,5-tetramethylbenzene</b>	<b>0.080</b>	<b>0.070</b>	<b>0.070</b>	<b>0.080</b>
	<b>1,2,4,5-tetramethylbenzene</b>	<b>0.060</b>	<b>0.050</b>	<b>0.050</b>	<b>0.060</b>
10	<b>1,3-diethylbenzene (meta)</b>	<b>0.110</b>	<b>0.100</b>	<b>0.100</b>	<b>0.110</b>
	<b>1,3-dimethyl-2-ethylbenzene</b>	<b>0.030</b>	<b>0.030</b>	<b>0.030</b>	<b>0.030</b>
	<b>1,3-dimethyl-4-ethylbenzene</b>	<b>0.130</b>	<b>0.120</b>	<b>0.120</b>	<b>0.130</b>

	<b>1,3-dimethyl-5-ethylbenzene</b>	<b>0.180</b>	<b>0.160</b>	<b>0.160</b>	<b>0.180</b>
	<b>1,4-diethylbenzene (para)</b>	<b>0.130</b>	<b>0.120</b>	<b>0.120</b>	<b>0.130</b>
	<b>1,4-dimethyl-2-ethylbenzene</b>	<b>0.120</b>	<b>0.110</b>	<b>0.110</b>	<b>0.120</b>
	<b>2-methylindan</b>	<b>0.080</b>	<b>0.070</b>	<b>0.070</b>	<b>0.080</b>
	<b>2-methylnonane</b>	<b>0.180</b>	<b>0.160</b>	<b>0.160</b>	<b>0.180</b>
<b>CNUM</b>	<b>CHEMNAME</b>	<b>Catalyst Start Exhaust</b>			
		<b>MTBE</b>	<b>Non-Oxy</b>	<b>EtOH 2%</b>	<b>EtOH 3.5%</b>
	<b>2,2-dimethyloctane</b>	<b>0.040</b>	<b>0.040</b>	<b>0.040</b>	<b>0.040</b>
	<b>2,2,4-trimethylheptane</b>	<b>0.120</b>	<b>0.110</b>	<b>0.110</b>	<b>0.120</b>
	<b>2,3-dimethyloctane</b>	<b>0.050</b>	<b>0.040</b>	<b>0.050</b>	<b>0.050</b>
	<b>2,4-dimethyloctane</b>	<b>0.060</b>	<b>0.050</b>	<b>0.050</b>	<b>0.060</b>
	<b>2,5-dimethyloctane</b>	<b>0.070</b>	<b>0.060</b>	<b>0.060</b>	<b>0.070</b>
	<b>2,6-dimethyloctane</b>	<b>0.090</b>	<b>0.080</b>	<b>0.080</b>	<b>0.090</b>
	<b>3,3-dimethyloctane</b>	<b>0.080</b>	<b>0.070</b>	<b>0.070</b>	<b>0.080</b>
	<b>4-methylindan</b>	<b>0.020</b>	<b>0.020</b>	<b>0.020</b>	<b>0.020</b>
	<b>5-methylindan</b>	<b>0.070</b>	<b>0.060</b>	<b>0.060</b>	<b>0.070</b>
<b>11</b>	<b>n-pentylbenzene</b>	<b>0.040</b>	<b>0.040</b>	<b>0.040</b>	<b>0.040</b>
	<b>n-undecane</b>	<b>0.070</b>	<b>0.060</b>	<b>0.060</b>	<b>0.070</b>
	<b>1-ethyl-2n-propylbenzene</b>	<b>0.020</b>	<b>0.020</b>	<b>0.020</b>	<b>0.020</b>
	<b>1-methyl-2-n-butylbenzene</b>	<b>0.030</b>	<b>0.030</b>	<b>0.030</b>	<b>0.030</b>
	<b>1-methyl-2-t-butylbenzene</b>	<b>0.010</b>	<b>0.010</b>	<b>0.010</b>	<b>0.010</b>
<b>12</b>	<b>n-dodecane</b>	<b>0.020</b>	<b>0.020</b>	<b>0.020</b>	<b>0.020</b>
	<b>t-1-butyl-3,5-dimethylbenzene</b>	<b>0.030</b>	<b>0.030</b>	<b>0.030</b>	<b>0.030</b>
	<b>1,3-dipropylbenzene</b>	<b>0.020</b>	<b>0.020</b>	<b>0.020</b>	<b>0.020</b>
<b>13</b>	<b>2,2,5-triethylheptane</b>	<b>0.160</b>	<b>0.140</b>	<b>0.150</b>	<b>0.160</b>
<b>0</b>					
<b>TOTAL</b>		<b>100.000</b>	<b>99.990</b>	<b>100.000</b>	<b>100.010</b>
<b>CNUM</b>	<b>CHEMNAME</b>	<b>Catalyst Stabilized Exhaust</b>			
		<b>MTBE</b>	<b>Non-Oxy</b>	<b>EtOH 2%</b>	<b>EtOH 3.5%</b>
<b>1</b>	<b>formaldehyde</b>	<b>1.76</b>	<b>1.57</b>	<b>1.65</b>	<b>1.62</b>
	<b>methane</b>	<b>15.82</b>	<b>14.57</b>	<b>14.75</b>	<b>15.85</b>
	<b>methyl alcohol</b>	<b>0.42</b>	<b>0</b>	<b>0</b>	<b>0.21</b>
<b>2</b>	<b>acetaldehyde</b>	<b>0.25</b>	<b>0.24</b>	<b>0.32</b>	<b>0.58</b>

	acetylene	3.44	3.17	3.21	3.45
	ethane	1.09	1	1.02	1.09
	ethyl alcohol	0.07	0	2.01	3.58
	ethylene	6.73	6.2	6.28	6.74
3	acetone	0.17	0.16	0.16	0.17
	acrolein (2-propenal)	0.14	0.13	0.13	0.14
CNUM	CHEMNAME	Catalyst Stabilized Exhaust			
		MTBE	Non-Oxy	EtOH 2%	EtOH 3.5%
	propane	0.06	0.05	0.06	0.06
	propionaldehyde	0.04	0.04	0.04	0.04
	propylene	3.24	2.98	3.02	3.24
	1-propyne	0.24	0.22	0.22	0.24
	1,2-propadiene	0.15	0.14	0.14	0.15
4	butyraldehyde	0.02	0.02	0.02	0.02
	cis-2-butene	0.18	0.17	0.17	0.18
	crotonaldehyde	0.03	0.03	0.03	0.03
	isobutane	0.02	0.02	0.02	0.02
	isobutene	3.46	1.69	1.71	1.84
	methyl ethyl ketone (MEK)	0.02	0.02	0.02	0.02
	n-butane	0.81	0.75	0.76	0.81
	trans-2-butene	0.25	0.23	0.23	0.25
	vinyloacetylene	0.07	0.06	0.07	0.07
	1-butene	0.44	0.4	0.41	0.44
	1,2-butadiene	0.01	0.01	0.01	0.01
	1,3-butadiene	0.57	0.56	0.56	0.56
	2-methyl-2-propenal	0.09	0.08	0.08	0.09
5	cis-2-pentene	0.12	0.11	0.11	0.12
	cyclopentane	0.37	0.34	0.35	0.37
	cyclopentene	0.2	0.18	0.19	0.2
	isopentane	7.08	7.08	6.6	7.09
5	isoprene	0.15	0.14	0.14	0.15
	isovaleraldehyde	0.04	0.04	0.04	0.04
	methyl t-butyl ether (MTBE)	2.01	0	0	0
	n-pentane	2.86	2.86	2.67	2.86
	trans-2-pentene	0.22	0.2	0.21	0.22

	1-pentene	0.14	0.13	0.13	0.14
	2-methyl-1-butene	0.3	0.28	0.28	0.3
	2-methyl-2-butene	0.43	0.4	0.4	0.43
	3-methyl-1-butene	0.24	0.22	0.22	0.24
6	benzene	2.73	2.4	2.62	2.73
	cis-2-hexene	0.04	0.04	0.04	0.04
	cyclohexane	0.63	0.63	0.59	0.63
CNUM	CHEMNAME	Catalyst Stabilized Exhaust			
		MTBE	Non-Oxy	EtOH 2%	EtOH 3.5%
	cyclohexene	0.09	0.08	0.08	0.09
	c6 aldehydes	0.02	0.02	0.02	0.02
	methylcyclopentane	2.86	2.86	2.67	2.86
	n-hexane	1.64	1.64	1.53	1.64
	trans-2-hexene	0.13	0.12	0.12	0.13
	trans-3-hexene	0.05	0.05	0.05	0.05
	1-hexene	0.05	0.05	0.05	0.05
	2-methyl-1-pentene	0.07	0.06	0.07	0.07
	2-methyl-2-pentene	0.08	0.07	0.07	0.08
	2-methylpentane	3.85	3.85	3.59	3.86
	2,2-dimethylbutane	0.66	0.66	0.62	0.66
	2,3-dimethyl-1-butene	0.01	0.01	0.01	0.01
	2,3-dimethylbutane	1.09	1.09	1.02	1.09
	3-methyl-1-pentene	0.11	0.1	0.1	0.11
	3-methylcyclopentene	0.07	0.06	0.07	0.07
	3-methylpentane	2.26	2.26	2.11	2.26
	4-methyl-trans-2-pentene	0.06	0.05	0.06	0.06
	4-methyl-1-pentene	0.01	0.01	0.01	0.01
7	benzaldehyde	0.17	0.16	0.16	0.17
	cis-2-heptene	0.01	0.01	0.01	0.01
7	ethylcyclopentane	0.15	0.28	0.26	0.15
	methylcyclohexane	0.63	1.16	1.07	0.63
	n-heptane	0.52	0.48	0.48	0.52
	toluene	6.09	5.61	5.68	6.1
	trans-2-heptene	0.01	0.01	0.01	0.01
	trans-3-heptene	0.05	0.05	0.05	0.05

	<b>1-c-3-dimethylcyclopentane</b>	<b>0.24</b>	<b>0.44</b>	<b>0.41</b>	<b>0.24</b>
	<b>1-t-3-dimethylcyclopentane</b>	<b>0.27</b>	<b>0.5</b>	<b>0.46</b>	<b>0.27</b>
	<b>2-methyl-trans-3-hexene</b>	<b>0.04</b>	<b>0.04</b>	<b>0.04</b>	<b>0.04</b>
	<b>2,2,3-trimethylbutane</b>	<b>0.01</b>	<b>0.02</b>	<b>0.02</b>	<b>0.01</b>
	<b>2,3-dimethylpentane</b>	<b>1.49</b>	<b>2.74</b>	<b>2.54</b>	<b>1.49</b>
	<b>2,4-dimethyl-2-pentene</b>	<b>0.02</b>	<b>0.02</b>	<b>0.02</b>	<b>0.02</b>
	<b>2,4-dimethylpentane</b>	<b>0.45</b>	<b>0.83</b>	<b>0.77</b>	<b>0.45</b>
	<b>3-ethylpentane</b>	<b>0.27</b>	<b>0.5</b>	<b>0.46</b>	<b>0.27</b>
<b>CNUM</b>	<b>CHEMNAME</b>	<b>Catalyst Stabilized Exhaust</b>			
		<b>MTBE</b>	<b>Non-Oxy</b>	<b>EtOH 2%</b>	<b>EtOH 3.5%</b>
	<b>3-methyl-cis-2-hexene</b>	<b>0.01</b>	<b>0.01</b>	<b>0.01</b>	<b>0.01</b>
	<b>3-methylhexane</b>	<b>0.79</b>	<b>1.45</b>	<b>1.35</b>	<b>0.79</b>
	<b>3,3-dimethylpentane</b>	<b>0.01</b>	<b>0.02</b>	<b>0.02</b>	<b>0.01</b>
<b>8</b>	<b>c-1-methyl-3-ethylcyclopentane</b>	<b>0.07</b>	<b>0.13</b>	<b>0.12</b>	<b>0.07</b>
	<b>c-1,2-dimethylcyclohexane</b>	<b>0.03</b>	<b>0.05</b>	<b>0.05</b>	<b>0.03</b>
	<b>cis-1,3-dimethylcyclohexane</b>	<b>0.08</b>	<b>0.15</b>	<b>0.14</b>	<b>0.08</b>
	<b>ethylbenzene</b>	<b>1.11</b>	<b>1.02</b>	<b>1.04</b>	<b>1.11</b>
	<b>m-xylene</b>	<b>3.77</b>	<b>3.47</b>	<b>3.52</b>	<b>3.78</b>
	<b>n-octane</b>	<b>0.4</b>	<b>0.37</b>	<b>0.37</b>	<b>0.4</b>
	<b>o-xylene</b>	<b>1.31</b>	<b>1.21</b>	<b>1.22</b>	<b>1.31</b>
	<b>styrene</b>	<b>0.13</b>	<b>0.12</b>	<b>0.12</b>	<b>0.13</b>
	<b>t-1-methyl-3-ethylcyclopentane</b>	<b>0.11</b>	<b>0.2</b>	<b>0.19</b>	<b>0.11</b>
	<b>tolualdehyde</b>	<b>0.23</b>	<b>0.21</b>	<b>0.21</b>	<b>0.23</b>
	<b>trans-1,3-dimethylcyclohexane</b>	<b>0.04</b>	<b>0.07</b>	<b>0.07</b>	<b>0.04</b>
	<b>trans-1,4-dimethylcyclohexane</b>	<b>0.04</b>	<b>0.07</b>	<b>0.07</b>	<b>0.04</b>
	<b>1,2,4-trimethylcyclopentene</b>	<b>0.13</b>	<b>0.24</b>	<b>0.22</b>	<b>0.13</b>
	<b>1c,2t,3-trimethylcyclopentane</b>	<b>0.06</b>	<b>0.11</b>	<b>0.1</b>	<b>0.06</b>
	<b>2-methylheptane</b>	<b>0.35</b>	<b>0.64</b>	<b>0.6</b>	<b>0.35</b>
<b>8</b>	<b>2,2-dimethylhexane</b>	<b>0.07</b>	<b>0.13</b>	<b>0.12</b>	<b>0.07</b>
	<b>2,2,4-trimethylpentane</b>	<b>1.78</b>	<b>3.28</b>	<b>3.03</b>	<b>1.78</b>
	<b>2,3-dimethylhexane</b>	<b>0.25</b>	<b>0.46</b>	<b>0.43</b>	<b>0.25</b>
	<b>2,3,4-trimethylpentane</b>	<b>0.62</b>	<b>1.14</b>	<b>1.06</b>	<b>0.62</b>
	<b>2,4-dimethylhexane</b>	<b>0.28</b>	<b>0.52</b>	<b>0.48</b>	<b>0.28</b>
	<b>2,5-dimethylhexane</b>	<b>0.35</b>	<b>0.64</b>	<b>0.6</b>	<b>0.35</b>
	<b>3-methylheptane</b>	<b>0.62</b>	<b>1.14</b>	<b>1.06</b>	<b>0.62</b>

	<b>4-methylheptane</b>	<b>0.16</b>	<b>0.29</b>	<b>0.27</b>	<b>0.16</b>
<b>9</b>	<b>indan</b>	<b>0.09</b>	<b>0.08</b>	<b>0.08</b>	<b>0.09</b>
	<b>isopropylbenzene (cumene)</b>	<b>0.01</b>	<b>0.01</b>	<b>0.01</b>	<b>0.01</b>
	<b>n-nonane</b>	<b>0.18</b>	<b>0.17</b>	<b>0.17</b>	<b>0.18</b>
	<b>n-propylbenzene</b>	<b>0.24</b>	<b>0.22</b>	<b>0.22</b>	<b>0.24</b>
	<b>1-methyl-2-ethylbenzene</b>	<b>0.29</b>	<b>0.27</b>	<b>0.27</b>	<b>0.29</b>
	<b>1-methyl-3-ethylbenzene</b>	<b>0.84</b>	<b>0.77</b>	<b>0.78</b>	<b>0.84</b>
	<b>1-methyl-4-ethylbenzene</b>	<b>0.35</b>	<b>0.32</b>	<b>0.33</b>	<b>0.35</b>
	<b>1-methyl-4-ethylcyclohexane</b>	<b>0.01</b>	<b>0.02</b>	<b>0.02</b>	<b>0.01</b>
<b>CNUM</b>		<b>Catalyst Stabilized Exhaust</b>			
		<b>MTBE</b>	<b>Non-Oxy</b>	<b>EtOH 2%</b>	<b>EtOH 3.5%</b>
	<b>1,2,3-trimethylbenzene</b>	<b>0.18</b>	<b>0.17</b>	<b>0.17</b>	<b>0.18</b>
	<b>1,2,4-trimethylbenzene</b>	<b>1.02</b>	<b>0.94</b>	<b>0.95</b>	<b>1.02</b>
	<b>1,3,5-trimethylbenzene</b>	<b>0.41</b>	<b>0.38</b>	<b>0.38</b>	<b>0.41</b>
	<b>1,3,5-trimethylecyclohexane</b>	<b>0.07</b>	<b>0.13</b>	<b>0.12</b>	<b>0.07</b>
	<b>2-methyloctane</b>	<b>0.01</b>	<b>0.02</b>	<b>0.02</b>	<b>0.01</b>
	<b>2,2,4-trimethylhexane</b>	<b>0.08</b>	<b>0.15</b>	<b>0.14</b>	<b>0.08</b>
	<b>2,2,5-trimethylhexane</b>	<b>0.33</b>	<b>0.61</b>	<b>0.56</b>	<b>0.33</b>
	<b>2,3,5-trimethylhexane</b>	<b>0.02</b>	<b>0.04</b>	<b>0.03</b>	<b>0.02</b>
	<b>2,4-dimethylheptane</b>	<b>0.07</b>	<b>0.13</b>	<b>0.12</b>	<b>0.07</b>
	<b>2,6-dimethylheptane</b>	<b>0.18</b>	<b>0.33</b>	<b>0.31</b>	<b>0.18</b>
	<b>3-methyloctane</b>	<b>0.31</b>	<b>0.57</b>	<b>0.53</b>	<b>0.31</b>
	<b>3,4-dimethylheptane</b>	<b>0.04</b>	<b>0.07</b>	<b>0.07</b>	<b>0.04</b>
	<b>3,5-dimethylheptane</b>	<b>0.15</b>	<b>0.28</b>	<b>0.26</b>	<b>0.15</b>
	<b>4-methyloctane</b>	<b>0.24</b>	<b>0.44</b>	<b>0.41</b>	<b>0.24</b>
<b>10</b>	<b>n-decane</b>	<b>0.16</b>	<b>0.15</b>	<b>0.15</b>	<b>0.16</b>
	<b>naphthalene</b>	<b>0.05</b>	<b>0.05</b>	<b>0.05</b>	<b>0.05</b>
<b>10</b>	<b>1-methyl-2-isopropylbenzene</b>	<b>0.05</b>	<b>0.05</b>	<b>0.05</b>	<b>0.05</b>
	<b>1-methyl-2n-propylbenzene</b>	<b>0.01</b>	<b>0.01</b>	<b>0.01</b>	<b>0.01</b>
	<b>1-methyl-3-isopropylbenzene</b>	<b>0.03</b>	<b>0.03</b>	<b>0.03</b>	<b>0.03</b>
	<b>1-methyl-3n-propylbenzene</b>	<b>0.16</b>	<b>0.15</b>	<b>0.15</b>	<b>0.16</b>
	<b>1,2-dimethyl-3-ethylbenzene</b>	<b>0.01</b>	<b>0.01</b>	<b>0.01</b>	<b>0.01</b>
	<b>1,2-dimethyl-4-ethylbenzene</b>	<b>0.11</b>	<b>0.1</b>	<b>0.1</b>	<b>0.11</b>
	<b>1,2,3,4-tetramethylbenzene</b>	<b>0.02</b>	<b>0.02</b>	<b>0.02</b>	<b>0.02</b>
	<b>1,2,3,5-tetramethylbenzene</b>	<b>0.03</b>	<b>0.03</b>	<b>0.03</b>	<b>0.03</b>

	<b>1,2,4,5-tetramethylbenzene</b>	<b>0.02</b>	<b>0.02</b>	<b>0.02</b>	<b>0.02</b>
	<b>1,3-diethylbenzene (meta)</b>	<b>0.03</b>	<b>0.03</b>	<b>0.03</b>	<b>0.03</b>
	<b>1,3-dimethyl-4-ethylbenzene</b>	<b>0.05</b>	<b>0.05</b>	<b>0.05</b>	<b>0.05</b>
	<b>1,3-dimethyl-5-ethylbenzene</b>	<b>0.12</b>	<b>0.11</b>	<b>0.11</b>	<b>0.12</b>
	<b>1,4-diethylbenzene (para)</b>	<b>0.07</b>	<b>0.06</b>	<b>0.07</b>	<b>0.07</b>
	<b>1,4-dimethyl-2-ethylbenzene</b>	<b>0.05</b>	<b>0.05</b>	<b>0.05</b>	<b>0.05</b>
	<b>2-methylindan</b>	<b>0.02</b>	<b>0.02</b>	<b>0.02</b>	<b>0.02</b>
	<b>2-methylnonane</b>	<b>0.09</b>	<b>0.08</b>	<b>0.08</b>	<b>0.09</b>
	<b>2,2-dimethyloctane</b>	<b>0.01</b>	<b>0.01</b>	<b>0.01</b>	<b>0.01</b>
	<b>2,2,4-trimethylheptane</b>	<b>0.02</b>	<b>0.02</b>	<b>0.02</b>	<b>0.02</b>
<b>CNUM</b>	<b>CHEMNAME</b>	<b>Catalyst Stabilized Exhaust</b>			
		<b>MTBE</b>	<b>Non-Oxy</b>	<b>EtOH 2%</b>	<b>EtOH 3.5%</b>
	<b>2,3-dimethyloctane</b>	<b>0.01</b>	<b>0.01</b>	<b>0.01</b>	<b>0.01</b>
	<b>2,4-dimethyloctane</b>	<b>0.04</b>	<b>0.04</b>	<b>0.04</b>	<b>0.04</b>
	<b>2,5-dimethyloctane</b>	<b>0.04</b>	<b>0.04</b>	<b>0.04</b>	<b>0.04</b>
	<b>2,6-dimethyloctane</b>	<b>0.01</b>	<b>0.01</b>	<b>0.01</b>	<b>0.01</b>
	<b>3,3-dimethyloctane</b>	<b>0.04</b>	<b>0.04</b>	<b>0.04</b>	<b>0.04</b>
	<b>4-methylindan</b>	<b>0.01</b>	<b>0.01</b>	<b>0.01</b>	<b>0.01</b>
	<b>5-methylindan</b>	<b>0.02</b>	<b>0.02</b>	<b>0.02</b>	<b>0.02</b>
<b>11</b>	<b>n-pentylbenzene</b>	<b>0.01</b>	<b>0.01</b>	<b>0.01</b>	<b>0.01</b>
	<b>n-undecane</b>	<b>0.01</b>	<b>0.01</b>	<b>0.01</b>	<b>0.01</b>
	<b>1-methyl-2-n-butylbenzene</b>	<b>0.01</b>	<b>0.01</b>	<b>0.01</b>	<b>0.01</b>
<b>12</b>	<b>n-dodecane</b>	<b>0.01</b>	<b>0.01</b>	<b>0.01</b>	<b>0.01</b>
	<b>t-1-butyl-3,5-dimethylbenzene</b>	<b>0.01</b>	<b>0.01</b>	<b>0.01</b>	<b>0.01</b>
	<b>1,3-dipropylbenzene</b>	<b>0.01</b>	<b>0.01</b>	<b>0.01</b>	<b>0.01</b>
<b>13</b>	<b>2,2,5-triethylheptane</b>	<b>0.06</b>	<b>0.05</b>	<b>0.06</b>	<b>0.06</b>
<b>TOTAL</b>		<b>100</b>	<b>99.99</b>	<b>100</b>	<b>99.99</b>
<b>CNUM</b>	<b>CHEMNAME</b>	<b>Non-Catalyst Start Exhaust</b>			
		<b>MTBE</b>	<b>Non-Oxy</b>	<b>EtOH 2%</b>	<b>EtOH 3.5%</b>
<b>1</b>	<b>formaldehyde</b>	<b>1.460</b>	<b>1.300</b>	<b>1.370</b>	<b>1.340</b>
	<b>methane</b>	<b>6.530</b>	<b>5.940</b>	<b>5.960</b>	<b>6.520</b>
	<b>methyl alcohol</b>	<b>0.840</b>	<b>0.000</b>	<b>0.000</b>	<b>0.190</b>
<b>2</b>	<b>acetaldehyde</b>	<b>0.350</b>	<b>0.330</b>	<b>0.440</b>	<b>0.810</b>

	acetylene	6.730	6.130	6.140	6.720
	ethane	0.740	0.670	0.670	0.740
	ethyl alcohol	0.060	0.000	3.000	5.280
	ethylene	8.060	7.340	7.350	8.040
3	acetone	0.280	0.250	0.250	0.280
	acrolein (2-propenal)	0.130	0.120	0.120	0.130
	propane	0.040	0.040	0.040	0.040
	propionaldehyde	0.070	0.060	0.060	0.070
	propylene	3.110	2.830	2.840	3.100
	1-propyne	0.370	0.340	0.340	0.370
	1,2-propadiene	0.310	0.280	0.280	0.310
CNUM	CHEMNAME	Non-Catalyst Start Exhaust			
		MTBE	Non-Oxy	EtOH 2%	EtOH 3.5%
4	butyraldehyde	0.070	0.060	0.060	0.070
	cis-2-butene	0.210	0.190	0.190	0.210
	crotonaldehyde	0.080	0.070	0.070	0.080
	isobutane	0.010	0.010	0.010	0.010
	isobutene	1.970	0.950	0.950	1.040
	methyl ethyl ketone (MEK)	0.100	0.090	0.090	0.100
	n-butane	0.480	0.440	0.440	0.480
	trans-2-butene	0.200	0.180	0.180	0.200
	vinyloacetylene	0.160	0.150	0.150	0.160
	1-butene	0.440	0.400	0.400	0.440
	1,2-butadiene	0.020	0.020	0.020	0.020
	1,3-butadiene	0.780	0.760	0.760	0.770
	1,3-butadiyne	0.020	0.020	0.020	0.020
	2-methyl-2-propenal	0.100	0.090	0.090	0.100
5	cis-2-pentene	0.070	0.060	0.060	0.070
	cyclopentane	0.490	0.450	0.450	0.490
	cyclopentene	0.150	0.140	0.140	0.150
5	isopentane	4.550	4.550	4.150	4.540
	isoprene	0.250	0.230	0.230	0.250
	isovaleraldehyde	0.020	0.020	0.020	0.020
	methyl t-butyl ether (MTBE)	3.800	0.000	0.000	0.000
	n-pentane	1.960	1.960	1.790	1.960

	trans-1,3-pentadiene	0.040	0.040	0.040	0.040
	trans-2-pentene	0.330	0.300	0.300	0.330
	1-pentene	0.080	0.070	0.070	0.080
	2-methyl-1-butene	0.230	0.210	0.210	0.230
	2-methyl-2-butene	0.380	0.350	0.350	0.380
	3-methyl-1-butene	0.250	0.230	0.230	0.250
6	benzene	2.750	2.420	2.640	2.740
	cis-2-hexene	0.030	0.030	0.030	0.030
	cyclohexane	0.770	0.770	0.700	0.770
	cyclohexene	0.030	0.030	0.030	0.030
	c6 aldehydes	0.030	0.030	0.030	0.030
	methylcyclopentane	2.860	2.860	2.610	2.850
CNUM	CHEMNAME	Non-Catalyst Start Exhaust			
		MTBE	Non-Oxy	EtOH 2%	EtOH 3.5%
	n-hexane	1.690	1.690	1.540	1.690
	trans-2-hexene	0.170	0.150	0.150	0.170
	trans-3-hexene	0.040	0.040	0.040	0.040
	1-hexene	0.060	0.050	0.050	0.060
	2-methyl-1-pentene	0.040	0.040	0.040	0.040
	2-methyl-2-pentene	0.040	0.040	0.040	0.040
	2-methylpentane	3.500	3.500	3.190	3.490
	2,2-dimethylbutane	0.470	0.470	0.430	0.470
	2,3-dimethylbutane	0.940	0.940	0.860	0.940
	3-methyl-1-pentene	0.040	0.040	0.040	0.040
	3-methylcyclopentene	0.050	0.050	0.050	0.050
	3-methylpentane	2.160	2.160	1.970	2.160
	4-methyl-trans-2-pentene	0.040	0.040	0.040	0.040
	4-methyl-1-pentene	0.020	0.020	0.020	0.020
7	benzaldehyde	0.260	0.240	0.240	0.260
7	cis-2-heptene	0.020	0.020	0.020	0.020
	ethylcyclopentane	0.300	0.550	0.500	0.300
	methylcyclohexane	0.830	1.510	1.400	0.830
	n-heptane	0.720	0.650	0.660	0.720
	toluene	7.370	6.710	6.720	7.350
	trans-2-heptene	0.020	0.020	0.020	0.020

	trans-3-heptene	0.050	0.050	0.050	0.050
	1-c-3-dimethylcyclopentane	0.380	0.690	0.640	0.380
	1-t-3-dimethylcyclopentane	0.340	0.620	0.570	0.340
	2-methyl-2-hexene	0.020	0.020	0.020	0.020
	2,2,3-trimethylbutane	0.030	0.050	0.050	0.030
	2,3-dimethyl-2-pentene	0.020	0.020	0.020	0.020
	2,3-dimethylpentane	1.650	3.000	2.780	1.650
	2,4-dimethyl-2-pentene	0.020	0.020	0.020	0.020
	2,4-dimethylpentane	0.590	1.070	0.990	0.590
	3-ethylpentane	0.400	0.730	0.670	0.400
	3-methyl-cis-2-hexene	0.020	0.020	0.020	0.020
	3-methyl-trans-3-hexene	0.010	0.010	0.010	0.010
	3-methylhexane	0.950	1.730	1.600	0.950
CNUM	CHEMNAME	Non-Catalyst Start Exhaust			
		MTBE	Non-Oxy	EtOH 2%	EtOH 3.5%
	3,4-dimethyl-1-pentene	0.020	0.020	0.020	0.020
	4-methyl-trans-2-hexene	0.010	0.010	0.010	0.010
8	c-1-methyl-3-ethylcyclopentane	0.070	0.130	0.120	0.070
	c-1,2-dimethylcyclohexane	0.050	0.090	0.080	0.050
	cis-1,3-dimethylcyclohexane	0.180	0.330	0.300	0.180
	ethylbenzene	1.390	1.260	1.270	1.390
	m-xylene	4.750	4.320	4.330	4.740
	n-octane	0.480	0.440	0.440	0.480
	o-xylene	1.620	1.470	1.480	1.620
	styrene	0.140	0.130	0.130	0.140
	t-1-methyl-3-ethylcyclopentane	0.150	0.270	0.250	0.150
	tolualdehyde	0.260	0.240	0.240	0.260
	trans-1,3-dimethylcyclohexane	0.040	0.070	0.070	0.040
8	trans-1,4-dimethylcyclohexane	0.150	0.270	0.250	0.150
	trans-2-octene	0.010	0.010	0.010	0.010
	unidentified	1.630	1.480	1.490	1.630
	1-octene	0.010	0.010	0.010	0.010
	1,2,4-trimethylcyclopentene	0.290	0.530	0.490	0.290
	1c,2t,3-trimethylcyclopentane	0.050	0.090	0.080	0.050
	2-methylheptane	0.470	0.860	0.790	0.470

	<b>2,2-dimethylhexane</b>	<b>0.050</b>	<b>0.090</b>	<b>0.080</b>	<b>0.050</b>
	<b>2,2,4-trimethylpentane</b>	<b>1.580</b>	<b>2.880</b>	<b>2.660</b>	<b>1.580</b>
	<b>2,3-dimethylhexane</b>	<b>0.420</b>	<b>0.760</b>	<b>0.710</b>	<b>0.420</b>
	<b>2,3,4-trimethylpentane</b>	<b>0.680</b>	<b>1.240</b>	<b>1.140</b>	<b>0.680</b>
	<b>2,4-dimethylhexane</b>	<b>0.430</b>	<b>0.780</b>	<b>0.720</b>	<b>0.430</b>
	<b>2,5-dimethylhexane</b>	<b>0.460</b>	<b>0.840</b>	<b>0.770</b>	<b>0.460</b>
	<b>3-methylheptane</b>	<b>0.700</b>	<b>1.270</b>	<b>1.180</b>	<b>0.700</b>
	<b>3,3-dimethylhexane</b>	<b>0.010</b>	<b>0.020</b>	<b>0.020</b>	<b>0.010</b>
	<b>4-methylheptane</b>	<b>0.340</b>	<b>0.620</b>	<b>0.570</b>	<b>0.340</b>
<b>9</b>	<b>indan</b>	<b>0.060</b>	<b>0.050</b>	<b>0.050</b>	<b>0.060</b>
	<b>isopropylbenzene (cumene)</b>	<b>0.030</b>	<b>0.030</b>	<b>0.030</b>	<b>0.030</b>
	<b>n-nonane</b>	<b>0.270</b>	<b>0.250</b>	<b>0.250</b>	<b>0.270</b>
	<b>n-propylbenzene</b>	<b>0.340</b>	<b>0.310</b>	<b>0.310</b>	<b>0.340</b>
	<b>1-methyl-2-ethylbenzene</b>	<b>0.290</b>	<b>0.260</b>	<b>0.260</b>	<b>0.290</b>
<b>CNUM</b>	<b>CHEMNAME</b>	<b>Non-Catalyst Start Exhaust</b>			
		<b>MTBE</b>	<b>Non-Oxy</b>	<b>EtOH 2%</b>	<b>EtOH 3.5%</b>
	<b>1-methyl-3-ethylbenzene</b>	<b>0.950</b>	<b>0.860</b>	<b>0.870</b>	<b>0.950</b>
	<b>1-methyl-4-ethylbenzene</b>	<b>0.400</b>	<b>0.360</b>	<b>0.360</b>	<b>0.400</b>
	<b>1-methyl-4-ethylcyclohexane</b>	<b>0.030</b>	<b>0.050</b>	<b>0.050</b>	<b>0.030</b>
	<b>1-nonene</b>	<b>0.020</b>	<b>0.020</b>	<b>0.020</b>	<b>0.020</b>
	<b>1,2,3-trimethylbenzene</b>	<b>0.220</b>	<b>0.200</b>	<b>0.200</b>	<b>0.220</b>
	<b>1,2,4-trimethylbenzene</b>	<b>1.100</b>	<b>1.000</b>	<b>1.000</b>	<b>1.100</b>
	<b>1,3,5-trimethylbenzene</b>	<b>0.480</b>	<b>0.440</b>	<b>0.440</b>	<b>0.480</b>
	<b>1,3,5-trimethylcyclohexane</b>	<b>0.070</b>	<b>0.130</b>	<b>0.120</b>	<b>0.070</b>
	<b>2-methyloctane</b>	<b>0.080</b>	<b>0.150</b>	<b>0.130</b>	<b>0.080</b>
	<b>2,2,4-trimethylhexane</b>	<b>0.060</b>	<b>0.110</b>	<b>0.100</b>	<b>0.060</b>
	<b>2,2,5-trimethylhexane</b>	<b>0.300</b>	<b>0.550</b>	<b>0.500</b>	<b>0.300</b>
<b>9</b>	<b>2,3-dimethylheptane</b>	<b>0.010</b>	<b>0.020</b>	<b>0.020</b>	<b>0.010</b>
	<b>2,3,5-trimethylhexane</b>	<b>0.030</b>	<b>0.050</b>	<b>0.050</b>	<b>0.030</b>
	<b>2,4-dimethylheptane</b>	<b>0.040</b>	<b>0.070</b>	<b>0.070</b>	<b>0.040</b>
	<b>2,4,4-trimethylhexane</b>	<b>0.010</b>	<b>0.020</b>	<b>0.020</b>	<b>0.010</b>
	<b>2,6-dimethylheptane</b>	<b>0.320</b>	<b>0.580</b>	<b>0.540</b>	<b>0.320</b>
	<b>3-methyloctane</b>	<b>0.570</b>	<b>1.040</b>	<b>0.960</b>	<b>0.570</b>
	<b>3,4-dimethylheptane</b>	<b>0.050</b>	<b>0.090</b>	<b>0.080</b>	<b>0.050</b>
	<b>3,5-dimethylheptane</b>	<b>0.210</b>	<b>0.380</b>	<b>0.350</b>	<b>0.210</b>

	4-methyloctane	0.290	0.530	0.490	0.290
10	isobutylbenzene	0.010	0.010	0.010	0.010
	n-decane	0.060	0.050	0.050	0.060
	naphthalene	0.020	0.020	0.020	0.020
	1-methyl-2-isopropylbenzene	0.050	0.050	0.050	0.050
	1-methyl-2n-propylbenzene	0.020	0.020	0.020	0.020
	1-methyl-3-isopropylbenzene	0.050	0.050	0.050	0.050
	1-methyl-3n-propylbenzene	0.140	0.130	0.130	0.140
	1-methyl-4-isopropylbenzene	0.010	0.010	0.010	0.010
	1,2-dimethyl-3-ethylbenzene	0.010	0.010	0.010	0.010
	1,2-dimethyl-4-ethylbenzene	0.070	0.060	0.060	0.070
	1,2,3,4-tetramethylbenzene	0.020	0.020	0.020	0.020
	1,2,3,5-tetramethylbenzene	0.030	0.030	0.030	0.030
	1,2,4,5-tetramethylbenzene	0.020	0.020	0.020	0.020
	1,3-diethylbenzene (meta)	0.030	0.030	0.030	0.030
CNUM	CHEMNAME	Non-Catalyst Start Exhaust			
		MTBE	Non-Oxy	EtOH 2%	EtOH 3.5%
	1,3-dimethyl-2-ethylbenzene	0.010	0.010	0.010	0.010
	1,3-dimethyl-4-ethylbenzene	0.050	0.050	0.050	0.050
	1,3-dimethyl-5-ethylbenzene	0.070	0.060	0.060	0.070
	1,4-diethylbenzene (para)	0.050	0.050	0.050	0.050
	1,4-dimethyl-2-ethylbenzene	0.050	0.050	0.050	0.050
	2-methylindan	0.020	0.020	0.020	0.020
	2-methylnonane	0.120	0.110	0.110	0.120
	2,2-dimethyloctane	0.010	0.010	0.010	0.010
	2,2,4-trimethylheptane	0.040	0.040	0.040	0.040
10	2,3-dimethyloctane	0.040	0.040	0.040	0.040
	2,4-dimethyloctane	0.020	0.020	0.020	0.020
	2,5-dimethyloctane	0.030	0.030	0.030	0.030
	2,6-dimethyloctane	0.040	0.040	0.040	0.040
	3,3-dimethyloctane	0.040	0.040	0.040	0.040
	5-methylindan	0.020	0.020	0.020	0.020
11	n-pentylbenzene	0.010	0.010	0.010	0.010
	n-undecane	0.010	0.010	0.010	0.010
	1-ethyl-2n-propylbenzene	0.010	0.010	0.010	0.010

	<b>1-methyl-2-n-butylbenzene</b>	<b>0.010</b>	<b>0.010</b>	<b>0.010</b>	<b>0.010</b>
<b>12</b>	<b>t-1-butyl-3,5-dimethylbenzene</b>	<b>0.010</b>	<b>0.010</b>	<b>0.010</b>	<b>0.010</b>
<b>13</b>	<b>2,2,5-triethylheptane</b>	<b>0.080</b>	<b>0.070</b>	<b>0.070</b>	<b>0.080</b>
<b>0</b>					
<b>TOTAL</b>		<b>100.000</b>	<b>99.990</b>	<b>99.990</b>	<b>100.000</b>
<b>CNUM</b>	<b>CHEMNAME</b>	<b>Non-Catalyst Stabilized Exhaust</b>			
		<b>MTBE</b>	<b>Non-Oxy</b>	<b>EtOH 2%</b>	<b>EtOH 3.5%</b>
<b>1</b>	<b>formaldehyde</b>	<b>3.12</b>	<b>2.78</b>	<b>2.93</b>	<b>2.88</b>
	<b>methane</b>	<b>5.58</b>	<b>5.16</b>	<b>5.19</b>	<b>5.59</b>
	<b>methyl alcohol</b>	<b>0.7</b>	<b>0</b>	<b>0</b>	<b>0.34</b>
<b>2</b>	<b>acetaldehyde</b>	<b>0.75</b>	<b>0.71</b>	<b>0.95</b>	<b>1.74</b>
	<b>acetylene</b>	<b>2.34</b>	<b>2.16</b>	<b>2.18</b>	<b>2.35</b>
	<b>ethane</b>	<b>1.77</b>	<b>1.64</b>	<b>1.65</b>	<b>1.77</b>
	<b>ethyl alcohol</b>	<b>0.01</b>	<b>0</b>	<b>1.86</b>	<b>3.24</b>
<b>CNUM</b>	<b>CHEMNAME</b>	<b>Non-Catalyst Stabilized Exhaust</b>			
		<b>MTBE</b>	<b>Non-Oxy</b>	<b>EtOH 2%</b>	<b>EtOH 3.5%</b>
	<b>ethylene</b>	<b>8.94</b>	<b>8.27</b>	<b>8.32</b>	<b>8.96</b>
<b>3</b>	<b>acetone</b>	<b>0.46</b>	<b>0.42</b>	<b>0.43</b>	<b>0.46</b>
	<b>acrolein (2-propenal)</b>	<b>0.18</b>	<b>0.17</b>	<b>0.17</b>	<b>0.18</b>
	<b>propane</b>	<b>0.09</b>	<b>0.08</b>	<b>0.08</b>	<b>0.09</b>
	<b>propionaldehyde</b>	<b>0.13</b>	<b>0.12</b>	<b>0.12</b>	<b>0.13</b>
	<b>propylene</b>	<b>4.9</b>	<b>4.53</b>	<b>4.56</b>	<b>4.91</b>
	<b>1-propyne</b>	<b>0.43</b>	<b>0.4</b>	<b>0.4</b>	<b>0.43</b>
	<b>1,2-propadiene</b>	<b>0.33</b>	<b>0.3</b>	<b>0.31</b>	<b>0.33</b>
<b>4</b>	<b>butyraldehyde</b>	<b>0.05</b>	<b>0.05</b>	<b>0.05</b>	<b>0.05</b>
	<b>cis-2-butene</b>	<b>0.25</b>	<b>0.23</b>	<b>0.23</b>	<b>0.25</b>
	<b>crotonaldehyde</b>	<b>0.13</b>	<b>0.12</b>	<b>0.12</b>	<b>0.13</b>
	<b>isobutane</b>	<b>0.02</b>	<b>0.02</b>	<b>0.02</b>	<b>0.02</b>
	<b>isobutene</b>	<b>3.95</b>	<b>1.94</b>	<b>1.95</b>	<b>2.1</b>
	<b>methyl ethyl ketone (MEK)</b>	<b>0.06</b>	<b>0.05</b>	<b>0.06</b>	<b>0.06</b>
	<b>n-butane</b>	<b>0.75</b>	<b>0.69</b>	<b>0.7</b>	<b>0.6</b>
	<b>trans-2-butene</b>	<b>0.35</b>	<b>0.32</b>	<b>0.33</b>	<b>0.35</b>
	<b>vinyacetylene</b>	<b>0.12</b>	<b>0.11</b>	<b>0.11</b>	<b>0.12</b>

	1-butene	0.66	0.61	0.61	0.66
	1,2-butadiene	0.05	0.05	0.05	0.05
	1,3-butadiene	0.83	0.81	0.81	0.82
	1,3-butadiyne	0.01	0.01	0.01	0.01
	2-butyne	0.01	0.01	0.01	0.01
	2-methyl-2-propenal	0.2	0.18	0.19	0.2
5	cis-2-pentene	0.11	0.1	0.1	0.11
	cyclopentane	0.28	0.26	0.26	0.28
5	cyclopentene	0.18	0.17	0.17	0.18
	isopentane	6.56	6.56	6.11	6.58
	isoprene	0.14	0.13	0.13	0.14
	isovaleraldehyde	0.08	0.07	0.07	0.08
	methyl t-butyl ether (MTBE)	1.86	0	0	0
	n-pentane	2.19	2.19	2.04	2.2
	trans-1,3-pentadiene	0.03	0.03	0.03	0.03
	trans-2-pentene	0.19	0.18	0.18	0.19
	1-pentene	0.14	0.13	0.13	0.14
CNUM	CHEMNAME	Non-Catalyst Stabilized Exhaust			
		MTBE	Non-Oxy	EtOH 2%	EtOH 3.5%
	2-methyl-1-butene	0.32	0.3	0.3	0.32
	2-methyl-2-butene	0.39	0.36	0.36	0.39
	3-methyl-1-butene	0.25	0.23	0.23	0.25
6	benzene	3.44	3.03	3.3	3.45
	cis-2-hexene	0.04	0.04	0.04	0.04
	cyclohexane	0.45	0.45	0.42	0.45
	cyclohexene	0.07	0.06	0.06	0.07
	c6 aldehydes	0.06	0.05	0.06	0.06
	methylcyclopentane	2.2	2.2	2.05	2.21
	n-hexane	1.31	1.31	1.22	1.31
	trans-2-hexene	0.13	0.12	0.12	0.13
	trans-3-hexene	0.05	0.05	0.05	0.05
	1-hexene	0.08	0.07	0.07	0.08
	2-methyl-1-pentene	0.06	0.05	0.06	0.06
	2-methyl-2-pentene	0.07	0.06	0.06	0.07
	2-methylpentane	3.21	3.21	2.99	3.22

	2,2-dimethylbutane	0.51	0.51	0.47	0.51
	2,3-dimethyl-1-butene	0.02	0.02	0.02	0.02
	2,3-dimethylbutane	0.98	0.98	0.91	0.98
	3-methyl-trans-2-pentene	0.02	0.02	0.02	0.02
	3-methyl-1-pentene	0.1	0.09	0.09	0.1
	3-methylcyclopentene	0.07	0.06	0.06	0.07
	3-methylpentane	1.93	1.93	1.8	1.93
6	3,3-dimethyl-1-butene	0.01	0.01	0.01	0.01
	4-methyl-trans-2-pentene	0.06	0.05	0.06	0.06
	4-methyl-1-pentene	0.07	0.06	0.06	0.07
7	benzaldehyde	0.61	0.56	0.57	0.61
	cis-2-heptene	0.03	0.03	0.03	0.03
	ethylcyclopentane	0.13	0.24	0.22	0.13
	methylcyclohexane	0.5	0.92	0.85	0.5
	n-heptane	0.49	0.45	0.46	0.49
	toluene	6.79	6.28	6.32	6.81
	trans-2-heptene	0.03	0.03	0.03	0.03
	trans-3-heptene	0.04	0.04	0.04	0.04
CNUM	CHEMNAME	Non-Catalyst Stabilized Exhaust			
		MTBE	Non-Oxy	EtOH 2%	EtOH 3.5%
	1-c-3-dimethylcyclopentane	0.2	0.37	0.34	0.2
	1-t-3-dimethylcyclopentane	0.23	0.42	0.39	0.23
	2-methyl-trans-3-hexene	0.05	0.05	0.05	0.05
	2-methyl-2-hexene	0.02	0.02	0.02	0.02
	2,2,3-trimethylbutane	0.03	0.05	0.05	0.03
	2,3-dimethyl-2-pentene	0.01	0.01	0.01	0.01
	2,3-dimethylpentane	1.69	3.13	2.89	1.69
	2,4-dimethyl-1-pentene	0.01	0.01	0.01	0.01
	2,4-dimethyl-2-pentene	0.06	0.05	0.06	0.06
	2,4-dimethylpentane	0.53	0.98	0.91	0.53
	3-ethylpentane	0.24	0.44	0.41	0.24
	3-methyl-cis-2-hexene	0.03	0.03	0.03	0.03
	3-methyl-trans-3-hexene	0.01	0.01	0.01	0.01
	3-methylhexane	0.76	1.4	1.3	0.76
	3,3-dimethylpentane	0.02	0.04	0.03	0.02

	<b>4-methyl-trans-2-hexene</b>	<b>0.01</b>	<b>0.01</b>	<b>0.01</b>	<b>0.01</b>
<b>8</b>	<b>c-1-methyl-3-ethylcyclopentane</b>	<b>0.07</b>	<b>0.13</b>	<b>0.12</b>	<b>0.07</b>
	<b>c-1,2-dimethylcyclohexane</b>	<b>0.01</b>	<b>0.02</b>	<b>0.02</b>	<b>0.01</b>
	<b>cis-1,3-dimethylcyclohexane</b>	<b>0.05</b>	<b>0.09</b>	<b>0.09</b>	<b>0.05</b>
	<b>cis-2-octene</b>	<b>0.01</b>	<b>0.01</b>	<b>0.01</b>	<b>0.01</b>
	<b>ethylbenzene</b>	<b>1.5</b>	<b>1.39</b>	<b>1.4</b>	<b>1.5</b>
<b>8</b>	<b>ethylcyclohexane</b>	<b>0.02</b>	<b>0.04</b>	<b>0.03</b>	<b>0.02</b>
	<b>m-xylene</b>	<b>4.45</b>	<b>4.11</b>	<b>4.14</b>	<b>4.46</b>
	<b>n-octane</b>	<b>0.35</b>	<b>0.32</b>	<b>0.33</b>	<b>0.35</b>
	<b>o-xylene</b>	<b>1.55</b>	<b>1.43</b>	<b>1.44</b>	<b>1.55</b>
	<b>styrene</b>	<b>0.13</b>	<b>0.12</b>	<b>0.12</b>	<b>0.13</b>
	<b>t-1-methyl-3-ethylcyclopentane</b>	<b>0.09</b>	<b>0.17</b>	<b>0.15</b>	<b>0.09</b>
	<b>tolualdehyde</b>	<b>0.6</b>	<b>0.55</b>	<b>0.56</b>	<b>0.6</b>
	<b>trans-1,3-dimethylcyclohexane</b>	<b>0.05</b>	<b>0.09</b>	<b>0.09</b>	<b>0.05</b>
	<b>trans-1,4-dimethylcyclohexane</b>	<b>0.05</b>	<b>0.09</b>	<b>0.09</b>	<b>0.05</b>
	<b>1,2,4-trimethylcyclopentene</b>	<b>0.11</b>	<b>0.2</b>	<b>0.19</b>	<b>0.11</b>
	<b>1c,2t,3-trimethylcyclopentane</b>	<b>0.07</b>	<b>0.13</b>	<b>0.12</b>	<b>0.07</b>
	<b>2-methylheptane</b>	<b>0.33</b>	<b>0.61</b>	<b>0.56</b>	<b>0.33</b>
	<b>2,2-dimethylhexane</b>	<b>0.08</b>	<b>0.15</b>	<b>0.14</b>	<b>0.08</b>
<b>CNUM</b>	<b>CHEMNAME</b>	<b>Non-Catalyst Stabilized Exhaust</b>			
		<b>MTBE</b>	<b>Non-Oxy</b>	<b>EtOH 2%</b>	<b>EtOH 3.5%</b>
	<b>2,2,4-trimethylpentane</b>	<b>1.99</b>	<b>3.68</b>	<b>3.4</b>	<b>1.99</b>
	<b>2,3-dimethylhexane</b>	<b>0.28</b>	<b>0.52</b>	<b>0.48</b>	<b>0.28</b>
	<b>2,3,4-trimethylpentane</b>	<b>0.63</b>	<b>1.16</b>	<b>1.08</b>	<b>0.63</b>
	<b>2,4-dimethylhexane</b>	<b>0.29</b>	<b>0.54</b>	<b>0.5</b>	<b>0.29</b>
	<b>2,5-dimethylhexane</b>	<b>0.33</b>	<b>0.61</b>	<b>0.56</b>	<b>0.33</b>
	<b>3-methylheptane</b>	<b>0.53</b>	<b>0.98</b>	<b>0.91</b>	<b>0.53</b>
	<b>3,3-dimethylhexane</b>	<b>0.01</b>	<b>0.02</b>	<b>0.02</b>	<b>0.01</b>
	<b>4-methylheptane</b>	<b>0.18</b>	<b>0.33</b>	<b>0.31</b>	<b>0.18</b>
<b>9</b>	<b>indan</b>	<b>0.12</b>	<b>0.11</b>	<b>0.11</b>	<b>0.12</b>
	<b>isopropylbenzene (cumene)</b>	<b>0.05</b>	<b>0.05</b>	<b>0.05</b>	<b>0.05</b>
	<b>n-nonane</b>	<b>0.18</b>	<b>0.17</b>	<b>0.17</b>	<b>0.18</b>
	<b>n-propylbenzene</b>	<b>0.28</b>	<b>0.26</b>	<b>0.26</b>	<b>0.28</b>
	<b>1-methyl-2-ethylbenzene</b>	<b>0.37</b>	<b>0.34</b>	<b>0.34</b>	<b>0.37</b>
	<b>1-methyl-3-ethylbenzene</b>	<b>1.07</b>	<b>0.99</b>	<b>1</b>	<b>1.07</b>

	1-methyl-4-ethylbenzene	0.46	0.42	0.43	0.46
	1-methyl-4-ethylcyclohexane	0.04	0.07	0.07	0.04
	1-nonene	0.02	0.02	0.02	0.02
	1,2,3-trimethylbenzene	0.23	0.21	0.21	0.23
	1,2,4-trimethylbenzene	1.26	1.16	1.17	1.26
9	1,3,5-trimethylbenzene	0.5	0.46	0.46	0.5
	1,3,5-trimethylcyclohexane	0.08	0.15	0.14	0.08
	2-methyloctane	0.06	0.11	0.1	0.06
	2,2,4-trimethylhexane	0.08	0.15	0.14	0.08
	2,2,5-trimethylhexane	0.35	0.65	0.6	0.35
	2,3-dimethylheptane	0.01	0.02	0.02	0.01
	2,3,5-trimethylhexane	0.05	0.09	0.09	0.05
	2,4-dimethylheptane	0.08	0.15	0.14	0.08
	2,4,4-trimethylhexane	0.01	0.02	0.02	0.01
	2,6-dimethylheptane	0.16	0.3	0.27	0.16
	3-methyloctane	0.44	0.81	0.75	0.44
	3,4-dimethylheptane	0.05	0.09	0.09	0.05
	3,5-dimethylheptane	0.13	0.24	0.22	0.13
	4-methyloctane	0.18	0.33	0.31	0.18
10	isobutylbenzene	0.01	0.01	0.01	0.01
CNUM	CHEMNAME	Non-Catalyst Stabilized Exhaust			
		MTBE	Non-Oxy	EtOH 2%	EtOH 3.5%
	n-decane	0.1	0.09	0.09	0.1
	naphthalene	0.13	0.12	0.12	0.13
	1-methyl-2-isopropylbenzene	0.1	0.09	0.09	0.1
	1-methyl-2n-propylbenzene	0.05	0.05	0.05	0.05
	1-methyl-3-isopropylbenzene	0.01	0.01	0.01	0.01
	1-methyl-3n-propylbenzene	0.28	0.26	0.26	0.28
	1-methyl-4-isopropylbenzene	0.01	0.01	0.01	0.01
	1,2-diethylbenzene (ortho)	0.01	0.01	0.01	0.01
	1,2-dimethyl-3-ethylbenzene	0.04	0.04	0.04	0.04
	1,2-dimethyl-4-ethylbenzene	0.17	0.16	0.16	0.17
	1,2,3,4-tetramethylbenzene	0.05	0.05	0.05	0.05
	1,2,3,5-tetramethylbenzene	0.08	0.07	0.07	0.08
	1,2,4,5-tetramethylbenzene	0.06	0.05	0.06	0.06

	<b>1,3-diethylbenzene (meta)</b>	<b>0.1</b>	<b>0.09</b>	<b>0.09</b>	<b>0.1</b>
	<b>1,3-dimethyl-2-ethylbenzene</b>	<b>0.02</b>	<b>0.02</b>	<b>0.02</b>	<b>0.02</b>
	<b>1,3-dimethyl-4-ethylbenzene</b>	<b>0.12</b>	<b>0.11</b>	<b>0.11</b>	<b>0.12</b>
	<b>1,3-dimethyl-5-ethylbenzene</b>	<b>0.17</b>	<b>0.16</b>	<b>0.16</b>	<b>0.17</b>
<b>10</b>	<b>1,4-diethylbenzene (para)</b>	<b>0.12</b>	<b>0.11</b>	<b>0.11</b>	<b>0.12</b>
	<b>1,4-dimethyl-2-ethylbenzene</b>	<b>0.11</b>	<b>0.1</b>	<b>0.1</b>	<b>0.11</b>
	<b>2-methylindan</b>	<b>0.08</b>	<b>0.07</b>	<b>0.07</b>	<b>0.08</b>
	<b>2-methylnonane</b>	<b>0.14</b>	<b>0.13</b>	<b>0.13</b>	<b>0.14</b>
	<b>2,2-dimethyloctane</b>	<b>0.02</b>	<b>0.02</b>	<b>0.02</b>	<b>0.02</b>
	<b>2,2,4-trimethylheptane</b>	<b>0.06</b>	<b>0.05</b>	<b>0.06</b>	<b>0.06</b>
	<b>2,3-dimethyloctane</b>	<b>0.04</b>	<b>0.04</b>	<b>0.04</b>	<b>0.04</b>
	<b>2,4-dimethyloctane</b>	<b>0.05</b>	<b>0.05</b>	<b>0.05</b>	<b>0.05</b>
	<b>2,5-dimethyloctane</b>	<b>0.03</b>	<b>0.03</b>	<b>0.03</b>	<b>0.03</b>
	<b>2,6-dimethyloctane</b>	<b>0.06</b>	<b>0.05</b>	<b>0.06</b>	<b>0.06</b>
	<b>3,3-dimethyloctane</b>	<b>0.05</b>	<b>0.05</b>	<b>0.05</b>	<b>0.05</b>
	<b>4-methylindan</b>	<b>0.02</b>	<b>0.02</b>	<b>0.02</b>	<b>0.02</b>
	<b>5-methylindan</b>	<b>0.07</b>	<b>0.06</b>	<b>0.06</b>	<b>0.07</b>
<b>11</b>	<b>n-pentylbenzene</b>	<b>0.03</b>	<b>0.03</b>	<b>0.03</b>	<b>0.03</b>
	<b>n-undecane</b>	<b>0.04</b>	<b>0.04</b>	<b>0.04</b>	<b>0.04</b>
	<b>1-ethyl-2n-propylbenzene</b>	<b>0.01</b>	<b>0.01</b>	<b>0.01</b>	<b>0.01</b>
	<b>1-methyl-2-n-butylbenzene</b>	<b>0.02</b>	<b>0.02</b>	<b>0.02</b>	<b>0.02</b>
<b>CNUM</b>	<b>CHEMNAME</b>	<b>Non-Catalyst Stabilized Exhaust</b>			
		<b>MTBE</b>	<b>Non-Oxy</b>	<b>EtOH 2%</b>	<b>EtOH 3.5%</b>
<b>12</b>	<b>n-dodecane</b>	<b>0.01</b>	<b>0.01</b>	<b>0.01</b>	<b>0.01</b>
	<b>t-1-butyl-3,5-dimethylbenzene</b>	<b>0.02</b>	<b>0.02</b>	<b>0.02</b>	<b>0.02</b>
	<b>1,3-dipropylbenzene</b>	<b>0.03</b>	<b>0.03</b>	<b>0.03</b>	<b>0.03</b>
<b>13</b>	<b>2,2,5-triethylheptane</b>	<b>0.11</b>	<b>0.1</b>	<b>0.1</b>	<b>0.11</b>
<b>0</b>					
<b>TOTAL</b>		<b>100</b>	<b>99.98</b>	<b>100</b>	<b>99.98</b>