

Appendix 6

Detail Speciation of NMVOC Emissions

Tabulated Emissions of NMVOC by Species

The NMVOC emissions given in the following table are sorted by compound name. In a number of cases it is not possible to resolve groups of compound into individual compounds. Consequently some entries in the table refer to groups, and are indicated by an entry of “g” in the “Type” column.

		Total emission	Energy Production	Comm + Residn Combustn.	Industrial Combustion	Production Processes	Extr & Distrib of Fossil Fuels	Solvent Use	Road Transport	Other Transp & Mach	Waste Treatment & Disp	Nature (Forests)	Type
1	(1-methylethyl)cyclohexane	0.88				0.08		0.80					
2	(1-methylpropyl)cyclohexane	1.58				0.14		1.45					
3	(2-methyl-1-propyl)acetate	0.49						0.49					
4	(2-methylbutyl)cyclohexane	0.12				0.01		0.11					
5	(2-methylpropyl)cyclohexane	0.86				0.07		0.79					
6	1-(2-butoxy-1-methyl-ethoxy)-2-propanol	1.15						1.15					
7	1-(2-ethoxy-1-methyl-ethoxy)-2-propanol	0.56						0.56					
8	1-(2-methoxy-1-methyl-ethoxy)2-propanol	0.56						0.56					
9	1-(butoxyethoxy)-2-propanol	0.00						0.00					
10	1,1,1-trichloroethane	10.48			0.00	0.00		10.37			0.10		
11	1,1,1-trichlorotrifluoroethane	0.04									0.04		
12	1,1,2,2-tetrachloroethane	0.02				0.02							
13	1,1,2-trimethylcyclohexane	0.36				0.03		0.33			0.00		
14	1,1,2-trimethylcyclopentane	0.01									0.01		
15	1,1,3-trimethylcyclohexane	0.41				0.03		0.37					
16	1,1,4,4-tetramethylcyclohexane	0.25				0.02		0.23					
17	1,1-dichloroethane	0.08									0.08		
18	1,1-dichloroethene	1.06				1.06							
19	1,1-dichlorotetrafluoroethane	0.00									0.00		
20	1,1-dimethylcyclohexane	0.03				0.00		0.03					
21	1,1-dimethylcyclopentane	0.06									0.06		
22	1,2,3,4-tetrahydronaphthalene	0.15				0.01		0.14					
23	1,2,3,4-tetramethylbenzene	0.56				0.02		0.55					
24	1,2,3,5-tetramethylbenzene	1.08				0.03		1.06					
25	1,2,3,5-tetramethylcyclohexane	0.40				0.03		0.36					
26	1,2,3-trichlorobenzene	0.00				0.00							
27	1,2,3-trimethylbenzene	5.01		0.00	0.00	0.14	0.00	2.49	2.21	0.17			
28	1,2,3-trimethylcyclohexane	0.75				0.06		0.68			0.00		
29	1,2,3-trimethylcyclopentane	0.03				0.00		0.02			0.01		
30	1,2,4,4-tetramethylcyclopentane	0.07				0.01		0.06					
31	1,2,4,5-tetramethylbenzene	0.75				0.02		0.73					
32	1,2,4-trichlorobenzene	0.00				0.00							
33	1,2,4-trimethylcyclopentane	0.01				0.00		0.01					
34	1,2,4-trimethylbenzene	18.45		0.00	0.00	0.35	0.00	7.80	9.83	0.46			
35	1,2,4-trimethylcyclohexane	0.24				0.02		0.21			0.00		
36	1,2,4-trimethylcyclopentane	0.01									0.01		
37	1,2-diaminoethane	0.00				0.00							
38	1,2-dibromoethane	0.00				0.00							
39	1,2-dichlorobenzene	0.01				0.00		0.01			0.00		
40	1,2-dichloroethane	2.04				2.02	0.02				0.00		
41	1,2-dichloroethene	0.17									0.17		
42	1,2-dichlorotetrafluoroethane	0.01									0.01		
43	1,2-dimethyl-3-isopropylcyclopentane	0.14				0.01		0.12					
44	1,2-dimethylcyclohexane	0.19				0.02		0.17			0.01		
45	1,2-dimethylcyclopentane	0.06									0.06		
46	1,2-ethanedioldiacetate	0.14						0.14					
47	1,2-ethylmethylcyclopentane	0.03				0.00		0.03					
48	1,2-propanediol	1.17						1.17					
49	1,3,4,5,6-pentahydroxy-2-hexanone	0.01				0.01							
50	1,3,5-trichlorobenzene	0.00				0.00							

		Total emission	Energy Production	Comm + Residn Combustn.	Industrial Combustion	Production Processes	Extr & Distrib of Fossil Fuels	Solvent Use	Road Transport	Other Transp & Mach	Waste Treatment & Disp	Nature (Forests)	Type
51	1,3,5-trimethylbenzene	6.75		0.00	0.00	0.18	0.00	2.49	3.89	0.20			
52	1,3,5-trimethylcyclohexane	0.00									0.00		
53	1,3-butadiene	6.19	0.00	0.00	0.00	0.37	0.03		5.26	0.52	0.01		
54	1,3-dichlorobenzene	0.00									0.00		
55	1,3-diethylbenzene	0.36				0.03		0.33					
56	1,3-dimethyl-4-ethylbenzene	0.37				0.04		0.33					
57	1,3-dimethyl-5-propylbenzene	0.04				0.00		0.04					
58	1,3-dimethylcyclohexane	0.17				0.01		0.15			0.01		
59	1,3-dimethylcyclopentane	0.06									0.06		
60	1,3-dioxolane	0.00						0.00			0.00		
61	1,3-ethylmethylcyclopentane	0.02				0.00		0.02					
62	1,3-hexadiene	1.81							1.81				
63	1,4-butyrolacetone	0.00						0.00					
64	1,4-dichlorobenzene	1.25				0.00		1.25			0.00		
65	1,4-diethylbenzene	0.37				0.03		0.34					
66	1,4-dimethyl-2-isopropylbenzene	0.06				0.00		0.05					
67	1,4-dimethylcyclohexane	0.43				0.04		0.38			0.02		
68	1,4-dimethylpiperazine	0.01				0.01							
69	1,4-dioxane	0.05				0.05							
70	11-methyl-1-dodecanol	0.00						0.00					
71	1-butanal	0.70		0.00					0.49	0.20			
72	1-butanol	5.63				0.04		5.58			0.01		
73	1-butene	4.15	0.02	0.04	0.04	0.37	0.46		2.96	0.25	0.01		
74	1-butoxy-2-propanol	0.00						0.00					
75	1-butyne	0.32							0.32				
76	1-chloro-2,3-epoxypropane	0.04				0.04							
77	1-chloro-4-nitrobenzene	0.00				0.00							
78	1-chloropropane	0.00									0.00		
79	1-decene	0.04	0.03		0.00					0.01			
80	1-ethoxy-2-propanol	1.35						1.35					
81	1-ethoxy-2-propyl acetate	0.60						0.60					
82	1-ethyl-1,4-dimethylcyclohexane	0.17				0.01		0.16					
83	1-ethyl-2,2,6-trimethylcyclohexane	0.44				0.04		0.41					
84	1-ethyl-2,3-dimethylbenzene	0.30				0.03		0.27					
85	1-ethyl-2,3-dimethylcyclohexane	0.20				0.02		0.19					
86	1-ethyl-2-propylbenzene	0.09				0.01		0.09					
87	1-ethyl-2-propylcyclohexane	0.18				0.02		0.17					
88	1-ethyl-3,5-dimethylbenzene	0.40				0.03		0.37					
89	1-ethyl-3-methylcyclohexane	1.31				0.11		1.20					
90	1-ethyl-4-methylcyclohexane	0.56				0.05		0.51					
91	1-ethylpropylbenzene	0.11				0.01		0.10					
92	1-heptene	0.07	0.04		0.00	0.01				0.02			
93	1-hexanal	0.59							0.59	0.01			
94	1-hexene	0.97	0.04	0.69	0.00	0.03			0.18	0.02			
95	1-hydrophenol	0.00				0.00							
96	1-methoxy-2-ethanol	0.44						0.44					
97	1-methoxy-2-propanol	1.87						1.87					
98	1-methoxy-2-propyl acetate	1.02						1.02					
99	1-methyl-1-phenylcyclopropane	0.08				0.01		0.07					

		Total emission	Energy Production	Comm. + Residn Combustn.	Industrial Combustion	Production Processes	Extr & Distrib of Fossil Fuels	Solvent Use	Road Transport	Other Transp & Mach	Waste Treatment & Disp	Nature (Forests)	Type
100	1-methyl-1-propylcyclopentane	0.22				0.02		0.20					
101	1-methyl-2-isopropylbenzene	0.37				0.03		0.34					
102	1-methyl-2-propylbenzene	0.43				0.04		0.40					
103	1-methyl-3-(isopropyl)benzene	0.43				0.04		0.40					
104	1-methyl-3-isopropylcyclopentane	0.01				0.00		0.01					
105	1-methyl-3-propylbenzene	0.86				0.07		0.79					
106	1-methyl-4-isopropylbenzene	1.47				0.13		1.35					
107	1-methyl-4-isopropylcyclohexane	1.53				0.13		1.40					
108	1-methyl-4-tertbutylbenzene	0.25				0.02		0.22					
109	1-methylbutylbenzene	0.24				0.02		0.22					
110	1-methylindan	0.11				0.01		0.10					
111	1-methylindene	0.01				0.00		0.01					
112	1-nonene	0.03				0.02				0.01			
113	1-octene	0.02				0.01				0.01			
114	1-pentanal	0.22							0.21	0.00			
115	1-pentanol	0.00				0.00							
116	1-pentene	3.81		0.21	0.00	0.17	0.50		2.71	0.23	0.00		
117	1-propanal	1.23		0.07					0.95	0.22			
118	1-propanol	4.79						4.73			0.06		
119	2-(2-aminoethylamino)ethanol	0.00				0.00							
120	2-(2-butoxyethoxy)ethanol	1.89						1.89					
121	2-(2-butoxyethoxy)ethyl acetate	0.50						0.50					
122	2-(2-ethoxyethoxy)ethanol	1.82						1.82					
123	2-(2-ethoxyethoxy)ethyl acetate	0.50						0.50					
124	2-(2-hydroxy-ethoxy)ethanol	0.04				0.00		0.04					
125	2-(2-hydroxy-propoxy)-1-propanol	0.02						0.02					
126	2-(methoxyethoxy)ethanol	0.62						0.62					
127	2,2,3,3-tetramethylhexane	0.58				0.05		0.53					
128	2,2,4,6,6-pentamethylheptane	0.01				0.01							
129	2,2,4-trimethyl-1,3-pentanediol	1.11						1.11					
130	2,2,4-trimethylpentane	0.14				0.14							
131	2,2,5-trimethylhexane	0.04				0.00		0.04					
132	2,2-dimethylbutane	0.42	0.00	0.00	0.00	0.11	0.18			0.10	0.02		
133	2,2-dimethylhexane	0.01				0.01							
134	2,2-dimethylpentane	0.22						0.22					
135	2,2-dimethylpropane	0.15	0.01	0.01	0.02	0.08	0.04				0.00		
136	2,2'-iminodi(ethylamine)	0.00				0.00							
137	2,2'-iminodiethanol	0.00				0.00							
138	2,3,3,4-tetramethylpentane	0.01				0.00		0.01					
139	2,3,3-trimethyl-1-butene	0.00				0.00							
140	2,3,4-trimethylhexane	0.04				0.00		0.04					
141	2,3,4-trimethylpentane	0.05				0.05							
142	2,3,5-trimethylhexane	0.01				0.00		0.01					
143	2,3-dimethylbutane	1.01	0.00	0.00	0.01	0.36	0.28	0.21		0.13	0.02		
144	2,3-dimethylfuran	0.00									0.00		
145	2,3-dimethylheptane	0.49				0.04		0.45					
146	2,3-dimethylhexane	0.04				0.04							
147	2,3-dimethylnonane	0.37				0.03		0.34					
148	2,3-dimethyloctane	0.15				0.01		0.14					
149	2,3-dimethylpentane	0.30				0.08		0.22					
150	2,3-dimethylundecane	0.09				0.01		0.08					

		Total emission	Energy Production	Comm. + Residn Combusn.	Industrial Combustion	Production Processes	Extr & Distrib of Fossil Fuels	Solvent Use	Road Transport	Other Transp & Mach	Waste Treatment & Disp	Nature (Forests)	Type
151	2,4,6-trichloro-1,3,5-triazine	0.00				0.00							
152	2,4-difluoroaniline	0.00				0.00							
153	2,4-dimethyl-1-(1-methylethyl)benzene	0.29				0.02		0.26					
154	2,4-dimethylfuran	0.00									0.00		
155	2,4-dimethylheptane	0.08				0.01		0.07					
156	2,4-dimethylhexane	0.01				0.01							
157	2,4-dimethylpentane	0.41	0.07		0.00	0.12		0.22					
158	2,4-toluene diisocyanate	0.05				0.05							
159	2,5-dimethyldecane	0.19				0.02		0.18					
160	2,5-dimethylfuran	0.00									0.00		
161	2,5-dimethylheptane	0.23				0.02		0.21					
162	2,5-dimethylhexane	0.01				0.01		0.01					
163	2,5-dimethyloctane	0.62				0.05		0.57					
164	2,6-dimethyldecane	0.24				0.02		0.22					
165	2,6-dimethylheptane	0.25				0.02		0.23					
166	2,6-dimethyloctane	1.84				0.16		1.69					
167	2,6-dimethylundecane	0.06				0.00		0.05					
168	2,6-toluene diisocyanate	0.05				0.05							
169	2,7-dimethyloctane	0.37				0.03		0.34					
170	2-[2-(2-ethoxy-ethoxy)-ethoxy]ethanol	0.65						0.65					
171	2-acetoxy-propyl acetate	0.09						0.09					
172	2-aminoethanol	0.02				0.00		0.02					
173	2-butanol	4.05				0.20		3.72			0.12		
174	2-butanone	14.85			0.00	0.17		14.26	0.39		0.02		
175	2-butanone oxime	0.20						0.20					
176	2-butene	6.73							6.45	0.25	0.03		
177	2-butoxyethanol	2.01				0.00		2.01					
178	2-butoxyethyl acetate	0.78						0.78					
179	2-chloroethanol	0.00				0.00							
180	2-chloropropane	0.00									0.00		
181	2-chlorotoluene	0.00				0.00		0.00					
182	2-ethoxyethanol	1.01				0.00		1.00					
183	2-ethoxyethyl acetate	0.96						0.96					
184	2-ethoxypropanol	0.05						0.05					
185	2-ethyl hexanol	0.00						0.00					
186	2-ethyl-1,3-dimethylbenzene	0.47				0.04		0.43					
187	2-ethyltoluene	0.20		0.00		0.02	0.00			0.18			
188	2-hexoxyethanol	0.09						0.09					
189	2-hydrophenol	0.00				0.00							
190	2-isopropoxyethanol	0.56						0.56					
191	2-methoxy-2-methylpropane	0.01				0.01							
192	2-methoxyethanol	0.56				0.00		0.56					
193	2-methoxyethyl acetate	0.49						0.49					
194	2-methoxypropane	0.01				0.01							
195	2-methyl benzaldehyde	0.79							0.79				
196	2-methyl-1,3-dioxolane	0.05				0.05							
197	2-methyl-1-butene	0.34		0.09	0.00	0.01	0.21			0.03	0.00		
198	2-methyl-1-butylbenzene	0.03				0.00		0.03					
199	2-methyl-1-pentene	0.00				0.00							
200	2-methyl-1-propanol	2.27				0.01		2.26			0.00		

	species	Total emission	Stationary Combustion	Stationary Combustion	Stationary Combustion + Residential	Industrial Processes	Extr & Distrib of Fossil Fuels	Solvent Use	Road Transport	Other Transp & Mach	Waste Treatment & Disp	Nature (Forests)	Type
201	2-methyl-2,4-pentanediol	0.14						0.14					
202	2-methyl-2-butene	0.60		0.15	0.00	0.01	0.33			0.11	0.00		
203	2-methyl-2-hexene	0.01				0.01							
204	2-methyl-5-ethyloctane	0.51				0.04		0.47					
205	2-methylbutanal	0.00				0.00							
206	2-methylbutane	70.18	0.09	3.41	0.23	2.45	15.68		46.96	1.35	0.03		
207	2-methyldecalin	0.36				0.03		0.33					
208	2-methyldecane	1.47				0.13		1.34					
209	2-methylfuran	0.00									0.00		
210	2-methylheptane	1.11				0.07	0.02	0.07	0.72	0.24			
211	2-methylhexane	5.36				0.09	0.09	1.55	3.44	0.19			
212	2-methylnonane	1.98				0.17	0.00	1.80		0.01			
213	2-methyloctane	0.71				0.06	0.00	0.62		0.03			
214	2-methylpentane	5.73	0.01	0.01	0.02	0.75	2.16	2.09		0.61	0.08		
215	2-methylpropanal	0.60		0.00		0.00			0.45	0.15			
216	2-methylpropane	40.92	0.05	1.30	0.01	2.78	18.89	1.00	16.34	0.54	0.01		
217	2-methylpropenal	0.48							0.48				
218	2-methylpropene	11.37				0.08			11.29		0.01		
219	2-methylpropyl acetate	0.00						0.00					
220	2-methylpyridine	0.01				0.01							
221	2-methylundecane	0.24				0.02		0.22					
222	2-pentanone	0.00									0.00		
223	2-pentene	6.18		0.49	0.00		1.13		4.43	0.13	0.00		
224	2-phenoxy ethanol	0.00						0.00					
225	2-phenylpropene	0.00				0.00							
226	2-propanol	8.44				0.87		7.55			0.03		
227	2-propen-1-ol	0.00				0.00							
228	2-propyl acetate	3.46				0.06		3.40			0.00		
229	3-(2-hydroxy-propoxy)-1-propanol	0.00						0.00					
230	3,3,4-trimethylhexane	0.01				0.00		0.01					
231	3,3,5-trimethylheptane	0.05				0.00		0.04					
232	3,3-dimethylheptane	0.06				0.00		0.05					
233	3,3-dimethyloctane	0.52				0.04		0.48					
234	3,3-dimethylpentane	0.22						0.22					
235	3,4-dimethylheptane	0.61				0.05		0.56					
236	3,4-dimethylhexane	0.01				0.00		0.01					
237	3,5-dimethyloctane	0.16				0.01		0.15					
238	3,6-dimethyloctane	0.45				0.04		0.42					
239	3,7-dimethylnonane	0.51				0.04		0.47					
240	3A,4,7,7A-tetrahydro-4,7-methanoindene	0.00				0.00							
241	3-chloro-4-fluoropicoline	0.00				0.00							
242	3-chloropropene	0.00				0.00							
243	3-chloropyridine	0.00				0.00							
244	3-ethyl-2-methylheptane	2.23				0.19		2.04					
245	3-ethyl-2-methylhexane	0.04				0.00		0.04					
246	3-ethylheptane	0.49				0.04		0.45					
247	3-ethylhexane	0.01				0.00		0.01					
248	3-ethyloctane	0.39				0.03		0.35					
249	3-ethylpentane	0.00				0.00							
250	3-ethyltoluene	1.63		0.00		0.18	0.00	1.21		0.24			

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251	3-hydrophenol	0.00				0.00							
252	3-methyl benzaldehyde	1.14							1.14				
253	3-methyl-1-butene	0.49		0.12	0.00	0.00	0.27			0.10	0.00		
254	3-methylbutanal	0.05							0.05				
255	3-methylbutanol	0.04				0.04							
256	3-methyldecane	1.65				0.14		1.51					
257	3-methylfuran	0.00									0.00		
258	3-methylheptane	1.84				0.04	0.02	0.05	1.48	0.24			
259	3-methylhexane	4.38				0.11	0.09	1.56	2.48	0.15			
260	3-methylnonane	2.29				0.20	0.00	2.08		0.01			
261	3-methyloctane	0.64				0.06	0.00	0.56		0.03			
262	3-methylpentane	3.96	0.00	0.01	0.01	0.55	1.09	1.88		0.36	0.06		
263	3-methylundecane	0.28				0.02		0.26					
264	3-pentanone	0.27						0.27					
265	4,4-dimethylheptane	0.02				0.00		0.02					
266	4,4'-methylenedianiline	0.00				0.00							
267	4,5-dimethylnonane	0.36				0.03		0.33					
268	4,6-dimethylindan	0.04				0.00		0.03					
269	4,7-dimethylindan	0.01				0.00		0.01					
270	4-4'-methylenediphenyl diisocyanate	0.00				0.00							
271	4-bromophenyl acetate	0.00				0.00							
272	4-chlorotoluene	0.00				0.00							
273	4-ethyl morpholine	0.03				0.03							
274	4-ethyl-1,2-dimethylbenzene	0.32				0.03		0.29					
275	4-ethyloctane	0.17				0.01		0.16					
276	4-ethyltoluene	0.80		0.00		0.05	0.00	0.50		0.25			
277	4-methyl benzaldehyde	0.47							0.47				
278	4-methyl-1,3-dioxol-2-one	0.01						0.01					
279	4-methyl-1-pentene	0.00				0.00							
280	4-methyl-2-pentanol	0.06						0.06					
281	4-methyl-2-pentanone	11.73				0.17		11.56					
282	4-methyl-4-hydroxy-2-pentanone	1.92						1.92					
283	4-methyldecane	2.76				0.24		2.53					
284	4-methylheptane	0.29				0.00	0.02	0.03		0.24			
285	4-methylnonane	1.57				0.13	0.00	1.42		0.01			
286	4-methyloctane	0.73				0.06	0.00	0.64		0.03			
287	4-methylpentene	0.14				0.14							
288	4-propylheptane	0.03				0.00		0.03					
289	5-methyl-2-hexanone	0.38						0.38					
290	5-methyldecane	0.74				0.06		0.68					
291	5-methylnonane	0.01					0.00			0.01			
292	5-methylundecane	0.23				0.02		0.21					
293	6-ethyl-2-methyldecane	0.03				0.00		0.03					
294	6-ethyl-2-methyloctane	0.09				0.01		0.08					
295	6-methylundecane	0.18				0.02		0.17					
296	8-methyl-1-nonanol	0.27						0.27					
297	acenaphthene	0.00		0.00	0.00								
298	acenaphthylene	0.01		0.01	0.00								
299	acetaldehyde	5.07		0.00	0.00	0.27			4.44	0.35			
300	acetic acid	0.62				0.55		0.06					

	species	Total emission	Stationary Combustion	Stationary Production	Stationary + Residential	Industrial Processes	Extr & Distrib of Fossil Fuels	Solvent Use	Road Transport	Other Transp & Mach	Waste Treatment & Disp	Nature (Forests)	Type
301	acetic anhydride	0.01				0.01							
302	acetone	27.87	0.05	0.03	0.05	2.44		23.53	1.37	0.41	0.00		
303	acetonitrile	0.09				0.09							
304	acetyl chloride	0.00				0.00							
305	acetylene	16.46	0.02	0.02	0.04	0.10	0.09		14.28	1.92			
306	acrolein	1.68							1.59	0.09			
307	acrylamide	0.03				0.03							
308	acrylic acid	0.74				0.73		0.00					
309	acrylonitrile	0.39				0.39							
310	aniline	0.03				0.03							
311	anthanthrene	0.00		0.00	0.00								
312	anthracene	0.00		0.00	0.00								
313	atrazine	0.00				0.00							
314	benzaldehyde	2.10			0.00	0.03			2.03	0.05			
315	benzene	29.76	0.17	3.12	0.84	1.79	0.92		20.96	1.90	0.07		
316	benzene-1,2,4-tricarboxylic acid 1,2-	0.00				0.00							
317	benzo (a) anthracene	0.00		0.00	0.00								
318	benzo (a) pyrene	0.05		0.00	0.00	0.05							
319	benzo (b) fluoranthene	0.00		0.00	0.00								
320	benzo (c) phenanthrene	0.00		0.00	0.00								
321	benzo (e) pyrene	0.00		0.00	0.00								
322	benzo (g,h,i) fluoranthene	0.00		0.00	0.00								
323	benzo (g,h,i) perylene	0.00		0.00	0.00								
324	benzo (k) fluoranthene	0.00		0.00	0.00								
325	benzophenone	0.00				0.00							
326	benzopyrenes	0.00		0.00	0.00								g
327	benzyl alcohol	1.23						1.23					
328	benzyl chloride	0.00				0.00							
329	biphenyl	0.00				0.00							
330	bis(2-hydroxyethyl)ether	0.01						0.01					
331	bis(chloromethyl)ether	0.00				0.00							
332	bis(tributyltin) oxide	0.00				0.00							
333	bromoethane	0.00									0.00		
334	bromoethene	0.01				0.01							
335	bromomethane	0.11				0.11							
336	butane	151.11	0.43	3.66	0.61	11.35	77.56	20.86	35.47	1.13	0.04		
337	butanethiols	0.00									0.00		g
338	butene	1.07		0.65	0.00	0.42							
339	butoxyl	0.16						0.16					
340	butyl acetate	6.88				0.03		6.82			0.03		
341	butyl acrylate	0.01				0.00		0.00					
342	butyl glycolate	0.16						0.16					
343	butyl lactate	0.16						0.16					
344	butylbenzene	0.42				0.05		0.34		0.01	0.02		
345	butylcyclohexane	1.45				0.13		1.32			0.00		
346	butyrolactone	0.03						0.03					
347	C10 alkanes	2.49				0.27		1.24	0.73		0.24		g
348	C10 alkenes	0.12									0.12		g
349	C10 aromatic hydrocarbons	3.34							3.34				g
350	C10 cycloalkanes	1.72				0.15		1.57					g

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351	C11 alkanes	2.43				0.14		1.46	0.73		0.10		no
352	C11 alkenes	0.03									0.03		no
353	C11 aromatic hydrocarbons	0.02				0.00		0.01			0.01		no
354	C11 cycloalkanes	0.12				0.01		0.11					no
355	C12 alkanes	1.25				0.04		0.47	0.73	0.01			no
356	C12 cycloalkanes	0.05				0.00		0.04					no
357	C13 alkanes	0.01				0.00		0.01					no
358	C13+ alkanes	14.55							14.55				no
359	C13+ aromatic hydrocarbons	24.83							24.83				no
360	C14 alkanes	0.01								0.01			no
361	C15 alkanes	0.01								0.01			no
362	C16 alkanes	0.00								0.00			no
363	C2-alkyl-anthracenes	0.00		0.00	0.00								no
364	C2-alkyl-benzanthracenes	0.00		0.00	0.00								no
365	C2-alkyl-benzophenanthrenes	0.00		0.00	0.00								no
366	C2-alkyl-chrysenes	0.00		0.00	0.00								no
367	C2-alkyl-phenanthrenes	0.00		0.00	0.00								no
368	C5 alkenes	0.00									0.00		no
369	C6 alkenes	0.55					0.47				0.08		no
370	C7 alkanes	4.47	0.00	0.00	0.01	0.69	3.15				0.61		no
371	C7 alkenes	0.06									0.06		no
372	C7 cycloalkanes	1.63				1.27	0.35	0.01					no
373	C8 alkanes	3.04	0.01	0.00	0.01	0.25	2.36	0.01			0.39		no
374	C8 alkenes	0.08									0.08		no
375	C8 cycloalkanes	0.50				0.37	0.13						no
376	C9 alkanes	0.50				0.26		0.09			0.15		no
377	C9 alkenes	0.05									0.05		no
378	C9 aromatic hydrocarbons	11.11							11.11				no
379	C9 cycloalkanes	0.16				0.07		0.09					no
380	camphor/fenchone	0.01									0.01		
381	carbon disulphide	0.00									0.00		
382	carbon tetrachloride	0.02				0.02							
383	carbonyl sulphide	0.67				0.67					0.00		
384	chlorobenzene	0.01				0.00					0.00		
385	chlorobutane	0.01				0.01							
386	chlorocyclohexane	0.00				0.00							
387	chlorodifluoromethane	0.01									0.01		
388	chloroethane	2.24				2.21					0.03		
389	chloroethene	0.74				0.72					0.02		
390	chloroethylene	0.03				0.03							
391	chlorofluoromethane	0.01									0.01		
392	chloromethane	1.62			0.00	1.62					0.00		
393	chrysene	0.00		0.00	0.00								
394	cis-1,3-dimethylcyclopentane	0.00				0.00							
395	cis-2-butene	0.74				0.03	0.70			0.01			
396	cis-2-hexene	0.00				0.00							
397	cis-2-pentene	0.47	0.01		0.00	0.03	0.43						
398	coronene	0.00		0.00	0.00								
399	crotonaldehyde	0.79							0.79	0.00			
400	cycloheptane	0.01				0.00		0.01					

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401	cyclohexanamine	0.05				0.05							
402	cyclohexane	4.31	0.02	1.91	0.06	0.30	0.10	1.87			0.06		
403	cyclohexanol	0.27				0.00		0.27					
404	cyclohexanone	1.28				0.27		1.02					
405	cyclopenta (c,d) pyrene	0.00		0.00	0.00								
406	cyclopenta-anthracenes	0.00		0.00	0.00								ng
407	cyclopentane	0.23				0.10	0.13				0.00		ng
408	cyclopenta-phenanthrenes	0.00		0.00	0.00								ng
409	cyclopentene	0.00				0.00							
410	decalin	0.50				0.04		0.46					
411	decane	11.04				1.24	0.01	8.29	1.47	0.03			
412	diacetoneketogulonic acid	0.00				0.00							
413	diazinon	0.00				0.00							
414	dibenzanthracenes	0.00		0.00	0.00								ng
415	dibenzo (a,h) anthracene	0.00		0.00	0.00								ng
416	dibenzopyrenes	0.00		0.00	0.00								ng
417	dichlorobutenes	0.00									0.00		ng
418	dichlorodifluoromethane	0.03									0.03		
419	dichlorofluoromethane	0.05									0.05		
420	dichloromethane	13.23			0.00	3.61	0.06	9.45			0.11		
421	dichlorvos	0.00				0.00							
422	diethyl disulphide	0.00									0.00		
423	diethyl ether	0.03				0.02		0.00			0.01		
424	diethyl sulphate	0.00				0.00							
425	diethylamine	0.00				0.00							
426	diethylbenzene	0.44						0.44					
427	difluoromethane	0.00				0.00							
428	dihydroxyacetone	0.00						0.00					
429	diisopropyl ether	0.73				0.66					0.06		
430	diisopropylbenzene	0.00				0.00							
431	dimethoxymethane	0.01				0.01							
432	dimethyl disulphide	0.04				0.01					0.02		
433	dimethyl esters	0.01						0.01					
434	dimethyl ether	1.66				1.16		0.50			0.00		
435	dimethyl sulphate	0.00				0.00							
436	dimethyl sulphide	0.03									0.03		
437	dimethylamine	0.02				0.02							
438	dimethylbutene	0.02				0.02							
439	dimethylcyclopentane	0.87						0.87					
440	dimethylformamide	1.03				0.69		0.34					
441	dimethylhexene	0.16							0.16				
442	dimethylnonane	0.19				0.02		0.18					
443	dimethylpentane	0.00						0.00					
444	dipentene	3.06						3.06					
445	dipropyl ether	0.06									0.06		
446	dodecane	0.69				0.06		0.50		0.13			
447	ethane	45.42	0.28	5.28	0.20	4.40	21.62		6.69	0.53	6.41		
448	ethanethiol	0.00				0.00	0.00				0.00		
449	ethanol	98.44		1.29	0.27	51.86		44.55			0.47		
450	ethofumesate	0.00				0.00							

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451	ethyl acetate	13.72				0.56		13.12			0.04		
452	ethyl acrylate	0.46				0.46							
453	ethyl butanoate	0.20									0.20		
454	ethyl chloroformate	0.00				0.00							
455	ethyl hexanol	0.11						0.11					
456	ethyl lactate	0.14						0.14					
457	ethyl pentanoate	0.02									0.02		
458	ethyl propionate	0.08									0.08		
459	ethylamine	0.44				0.44							
460	ethylbenzene	18.48	0.14	0.00	0.01	0.50	0.09	5.59	11.25	0.70	0.20		
461	ethylcyclohexane	0.53				0.05		0.48					
462	ethylcyclopentane	0.00									0.00		
463	ethyldimethylbenzene	2.72						2.72					
464	ethylene	46.40	0.17	3.34	0.58	9.19	0.17		28.60	4.35			
465	ethylene glycol	1.26				0.04		1.22					
466	ethylene oxide	0.40				0.20		0.20					
467	ethylisopropylbenzene	0.01				0.00		0.01					
468	fenitrothion	0.00				0.00							
469	fluoranthene	0.01		0.00	0.00								
470	fluorene	0.00		0.00	0.00								
471	formaldehyde	25.21	5.73	1.84	1.17	0.14		0.04	10.44	1.58	4.27		
472	formanilide	0.00				0.00							
473	formic acid	0.06				0.04		0.02					
474	fumaric acid	0.00				0.00							
475	glycerol	0.01				0.00		0.01					
476	glyoxal	0.10								0.10			
477	heptadecane	0.00								0.00			
478	heptane	22.49	0.02	1.36	0.00	1.69	13.39	1.88	4.05	0.10			
479	hexachlorocyclohexane	0.00				0.00							
480	hexachloroethane	0.00						0.00					
481	hexadecane	0.00								0.00			
482	hexafluoropropene	0.00				0.00							
483	hexamethylcyclotrisiloxane	0.34								0.34			
484	hexamethyldisilane	0.00				0.00							
485	hexamethyldisiloxane	0.02				0.02							
486	hexamethylenediamine	0.01				0.01							
487	hexane	51.46	0.15	1.26	0.08	6.42	12.88	7.78	22.33	0.38	0.18		
488	hexylcyclohexane	0.01				0.00		0.01					
489	indan	0.47				0.03		0.44					
490	indeno (1,2,3-c,d) pyrene	0.00		0.00	0.00								
491	iodomethane	0.00				0.00							
492	isobutylbenzene	0.02									0.02		
493	isobutylcyclohexane	0.00									0.00		
494	isopentylbenzene	0.06				0.00		0.05					
495	isophorone	0.28						0.28					
496	isoprene	0.04				0.00	0.04						
497	isoprene + BVOC (1)	178.0										178	
498	isopropylbenzene	0.58		0.00		0.04	0.01	0.33		0.11	0.09		
499	isopropylcyclohexane	0.00									0.00		
500	limonene	0.24						0.10			0.14		

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501	malathion	0.00				0.00							
502	maleic anhydride	0.01				0.01							
503	m-cresol	0.01				0.01							
504	menthene	0.02									0.02		
505	methacrylic acid	0.01				0.01							
506	methanethiol	0.05				0.00					0.05		
507	methanol	31.25				1.18		29.95			0.12		
508	methyl acetate	4.66				4.66		0.00					
509	methyl acrylate	0.06				0.06							
510	methyl butanoate	0.01									0.01		
511	methyl ethyl ether	0.00									0.00		
512	methyl formate	0.35				0.35							
513	methyl glyoxal	0.07								0.07			
514	methyl methacrylate	0.08				0.08							
515	methyl naphthalenes	0.01		0.00	0.00					0.01			ng
516	methyl pentanoate	0.01									0.01		ng
517	methyl styrene	0.01									0.01		ng
518	methylamine	0.04				0.04							ng
519	methyl-anthracenes	0.00		0.00	0.00								ng
520	methyl-benzanthracenes	0.00		0.00	0.00								ng
521	methyl-benzphenanthrenes	0.00		0.00	0.00								ng
522	methylcyclodecane	0.08				0.01		0.07					ng
523	methylcyclohexane	2.17		1.11		0.13		0.76			0.17		ng
524	methylcyclopentane	1.61	0.00	0.00	0.00	0.24		1.32			0.05		ng
525	methylethylbenzene	4.81						4.81					ng
526	methyl-fluoranthenes	0.00		0.00	0.00								ng
527	methylhexane	0.02						0.02					ng
528	methylindane	0.27						0.27					ng
529	methyl-phenanthrenes	0.00		0.00	0.00								ng
530	methylpropene	0.60					0.49			0.11			ng
531	methylpropylbenzene	1.20						1.20					ng
532	methyltetralin	0.02				0.00		0.02					ng
533	m-xylene	29.06	0.46	0.01	0.03	1.08	0.19	15.02	11.13	1.01	0.12		ng
534	N-(hydroxymethyl) acrylamide	0.00				0.00							ng
535	N,N-diethyl benzenamine	0.01				0.01							ng
536	N,N-dimethyl benzenamine	0.18				0.18							ng
537	naphthalene	0.50		0.09	0.01	0.00		0.38		0.02			ng
538	naphthol	0.07						0.07					ng
539	Nedocromil Sodium	0.00				0.00							ng
540	nitrobenzene	0.01				0.01							ng
541	nitromethane	0.02				0.02							ng
542	nitropentane	0.08						0.08					ng
543	nitropropane	0.00						0.00					ng
544	N-methyl pyrrolidone	0.01				0.00		0.01					ng
545	nonane	6.03				0.84	0.04	4.79	0.36	0.01			ng
546	o-cresol	0.01				0.01							ng
547	octahydroindan	0.26				0.02		0.24					ng
548	octamethylcyclotetrasiloxane	0.11								0.11			ng
549	octane	15.08				1.11	11.86	0.34	1.68	0.09			ng
550	octylamine	0.00				0.00							ng

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551	o-xylene	16.47	0.10	0.01	0.01	0.39	0.06	3.69	11.32	0.82	0.07		
552	palmitic acid	0.00				0.00							
553	p-benzoquinone	0.00				0.00							
554	p-cresol	0.01				0.01							
555	pentadecane	0.01								0.01			
556	pentafluoroethane	0.00				0.00							
557	pentane	64.53	0.20	6.35	0.67	6.39	26.32		23.88	0.67	0.03		
558	pentanethiols	0.00									0.00		g
559	pentylbenzene	0.02				0.00		0.01		0.01			
560	pentylcyclohexane	0.36				0.03		0.33					
561	permethrin	0.00				0.00							
562	perylene	0.00		0.00	0.00								
563	phenol	0.41				0.32		0.08		0.01			
564	phenoxyacetic acid (phenoxy acid)	0.01				0.01							
565	phenylacetic acid	0.00				0.00							
566	phenylacetonitrile	0.00				0.00							
567	phthalic anhydride	0.12				0.12							
568	pine oil	0.70						0.70					
569	polyethylene glycol	0.00						0.00					
570	polyisobutene	0.01				0.01							
571	polyvinyl chloride	0.01				0.01							
572	potassium phenylacetate	0.00				0.00							
573	propadiene	0.05							0.05				
574	propane	52.60	0.27	2.87	0.28	8.81	26.63	4.13	2.87	0.33	6.41		
575	propanetriol	0.00						0.00					
576	propanoic acid	0.04				0.04							
577	propionitrile	0.01				0.01							
578	propyl acetate	1.42						1.39			0.03		
579	propyl butanoate	0.06									0.06		
580	propyl propionate	0.12									0.12		
581	propylamine	0.00				0.00							
582	propylbenzene	1.69		0.00		0.09		1.36		0.14	0.09		
583	propylcyclohexane	1.89				0.16		1.72			0.00		
584	propylcyclopentane	0.01				0.00		0.01					
585	propylene	25.97	0.18	1.69	0.08	7.98	0.07		14.40	1.57			
586	propylene oxide	0.11				0.08		0.03					
587	propyne	1.54							1.54				
588	p-xylene	13.82	0.00	0.01	0.01	0.40	0.02	3.67	8.61	1.01	0.10		
589	pyrene	0.00		0.00	0.00								
590	pyridine	0.00				0.00							
591	salicylic acid	0.00				0.00							
592	sec-butylbenzene	0.02									0.02		
593	sec-butylcyclohexane	0.00									0.00		
594	simazine	0.00				0.00							
595	sodium 2-ethylhexanoate	0.00				0.00							
596	sodium acetate	0.00				0.00							
597	sodium phenylacetate	0.00				0.00							
598	styrene	4.14			0.00	0.35		1.32	2.45	0.01	0.00		
599	sulphanilamide	0.00				0.00							
600	terpenes	0.19									0.19		g

	species	Total emission	Stationary Combustion	Stationary Production	Stationary + Residential	Industrial Processes	Extr & Distrib of Fossil Fuels	Solvent Use	Road Transport	Other Transp & Mach	Waste Treatment & Disp	Nature (Forests)	Type
601	tert-butylamine	0.01				0.01							
602	tert-butylbenzene	0.02									0.02		
603	tert-butylcyclohexane	0.00									0.00		
604	tert-butylcyclopropane	0.01				0.00		0.01					
605	tert-pentylbenzene	0.14				0.01		0.13					
606	tetrachloroethene	8.00				0.50		7.29			0.20		
607	tetradecane	0.89				0.00		0.88		0.02			
608	tetrafluoroethene	0.04				0.04							
609	tetrahydrofuran	0.81				0.66		0.14			0.00		
610	tetrahydrofuryl alcohol	0.00						0.00					
611	tetramethylcyclohexane	0.28				0.02		0.26					
612	toluene	70.21	0.11	1.37	0.13	2.33	0.49	24.62	37.87	3.01	0.27		
613	toluene-2,3-diamine	0.00				0.00							
614	toluene-2,4-diamine	0.00				0.00							
615	toluene-2,4-diisocyanate	0.00				0.00							
616	toluene-2,5-diamine	0.00				0.00							
617	toluene-2,6-diamine	0.00				0.00							
618	toluene-2,6-diisocyanate	0.00				0.00							
619	toluene-3,4-diamine	0.00				0.00							
620	toluene-3,5-diamine	0.00				0.00							
621	trans-2-butene	0.81				0.04	0.76						
622	trans-2-hexene	0.00				0.00							
623	trans-2-pentene	0.86				0.05	0.81						
624	trans-3-hexene	0.00				0.00							
625	trialkyl phosphate	0.00						0.00					
626	trichloroethene	21.26			0.00	2.20		18.95			0.10		
627	trichlorofluoromethane	0.01									0.01		
628	trichloromethane	0.37				0.36					0.00		
629	tridecane	0.02				0.00				0.02			
630	triethanolamine	0.00						0.00					
631	triethylamine	0.00				0.00							
632	trifluoroethene	0.00				0.00							
633	trifluoromethane	0.39				0.39							
634	trifluralin	0.00				0.00							
635	trimethylamine	0.00				0.00							
636	trimethylfluorosilane	0.58				0.58							
637	tri-n-butyl phosphate	1.06						1.06					
638	undecane	4.87				0.44		4.33		0.10			
639	unspeciated alcohols	0.14		0.07		0.07							rg
640	unspeciated aliphatic hydrocarbons	0.21						0.21					rg
641	unspeciated alkanes	21.59	0.00			0.01		0.11	0.41	21.06			rg
642	unspeciated alkenes	2.68							0.05	2.63			rg
643	unspeciated amines	0.08						0.08					rg
644	unspeciated aromatic hydrocarbons	3.51		0.01	0.00			1.71	0.03	1.75			rg
645	unspeciated carboxylic acids	0.00									0.00		rg
646	unspeciated cycloalkanes	3.52				0.00		0.05	3.46				rg
647	unspeciated hydrocarbons	1.70		0.02		1.08	0.11	0.49					rg
648	unspeciated ketones	0.23		0.03				0.19					rg
649	urea	0.00				0.00							
650	vinyl acetate	0.09				0.09							

"0" or "0.00" represents a value that is <0.005kTonne s

(1) BVOC- biogenic VOCs, such as alpha-pinene and other terpenes