

**Supplementary Table 1** Microorganisms species name corresponding to the clusters and their pathogenicity.

Species No	Species Name	Cluster No	Pathogenicity
1	<i>Chondromyces crocatus</i>	1	Non-pathogenic
2	<i>Nannocystis exedens</i>	2	Non-pathogenic
3	<i>Nannocystis exedens</i> Na eB37	2	Non-pathogenic
4	<i>Nannocystis exedens</i> subsp. <i>cinnabarina</i> Na c29	2	Non-pathogenic
5	<i>Tuber magnatum</i>	3	Non-pathogenic
6	<i>Phoma</i> sp.	4	Non-pathogenic
7	<i>Tuber melanosporum</i>	5	Non-pathogenic
8	<i>Penicillium roqueforti</i> (IBT 16404)	6	Non-pathogenic
9	<i>Nannocystis exedens</i> Na e485	6	Non-pathogenic
10	<i>Streptomyces citreus</i>	6	Non-pathogenic
11	<i>Acremonium furcatum</i> BAFC 51375	6	Non-pathogenic
12	<i>Bacillus</i> strains	6	Non-pathogenic
13	<i>Fistulina hepatica</i> (Schaeffer: Fr.) Fr	6	Non-pathogenic
14	<i>Octadecabacter</i> sp.	6	Non-pathogenic
15	<i>Octadecabacter</i> sp. ARK10255b	6	Non-pathogenic
16	<i>Halomonas venusta</i>	6	Non-pathogenic
17	<i>Planococcus citreus</i>	6	Non-pathogenic
18	<i>Enterobacter agglomerans</i>	6	Non-pathogenic
19	<i>Aspergillus versicolor</i>	6	Non-pathogenic
20	<i>Streptomyces griseus</i>	6	Non-pathogenic
21	<i>Escherichia</i> sp.	6	Non-pathogenic
22	<i>Bacillus pumilus</i> (BSH-4)	6	Non-pathogenic
23	<i>Burkholderia andropogonis</i> LMG 2129	6	Non-pathogenic
24	<i>Burkholderia sordidicola</i> LMG 22029	6	Non-pathogenic
25	<i>Limnobacter thiooxidans</i> LMG 19593	6	Non-pathogenic
26	<i>Stenotrophomonas rhizophilla</i> ep10-p69	6	Non-pathogenic
27	<i>S.aureus</i> (5)	6	Pathogenic
28	<i>Agaricus bisporus</i>	6	Non-pathogenic
29	<i>Aspergillus candidus</i>	6	Non-pathogenic
30	<i>Emericella nidulans</i>	6	Non-pathogenic
31	<i>Mycropleptonoides aitchisonii</i> TUFC10099	6	Non-pathogenic
32	<i>P.aeruginosa</i> (2)	6	Pathogenic
33	<i>Pseudomonas fluorescens</i> L13-6-12	6	Non-pathogenic
34	<i>Pseudomonas</i> sp.	6	Non-pathogenic
35	<i>Pseudomonas trivialis</i> 3Re2-7	6	Non-pathogenic
36	<i>Shewanella</i> spp.	6	Non-pathogenic
37	<i>Muscodor fengyangensis</i> (ZJLQ374)	6	Non-pathogenic
38	<i>Penicillium expansum</i>	6	Non-pathogenic
39	<i>Muscodor fengyangensis</i> (ZJLQ070)	6	Non-pathogenic
40	<i>Muscodor fengyangensis</i> (ZJLQ151)	6	Non-pathogenic
41	<i>Muscodor albus</i> I-41. 3s	6	Non-pathogenic

42	Bacillus pumilus (ZB13)	6	Non-pathogenic
43	Bacillus subtilis(BL02)	6	Non-pathogenic
44	Carnobacterium maltaromaticum	6	Non-pathogenic
45	Penicillium crustosum	6	Non-pathogenic
46	E.coli (3)	6	Pathogenic
47	Mycobacterium tuberculosis	6	Pathogenic
48	Pseudomonas taetroleus	6	Non-pathogenic
49	Penicillium cyclopium	6	Non-pathogenic
50	Paecilomyces variotii	6	Non-pathogenic
51	Jannaschia helgolandensis strain HEL-26	6	Non-pathogenic
52	Klebsiella pneumoniae	6	Pathogenic
53	Tuber oligospermum	6	Non-pathogenic
54	Thermoactinomyces spp.	6	Non-pathogenic
55	Actinobacteria	6	Non-pathogenic
56	Oscillatoria chalybea	6	Non-pathogenic
57	Oscillatoria sp.	6	Non-pathogenic
58	Streptomyces lavendulae	6	Non-pathogenic
59	Cytophaga strains	6	Non-pathogenic
60	a marine Arctic bacterium	6	Non-pathogenic
61	Burkholderia sordidicola LMG 22029	6	Non-pathogenic
62	Roseobacter clade	6	Non-pathogenic
63	Serratia plymuthica 3Re4-18	6	Non-pathogenic
64	Staphylococcus epidermidis 2P3-18	6	Non-pathogenic
65	Stenotrophomonas rhizophila P69	6	Non-pathogenic
66	Arthrobacter globiformis	6	Non-pathogenic
67	Streptomyces sp.	6	Non-pathogenic
68	Penicillium palitans (commune) (IBT 15899)	6	Non-pathogenic
69	S.aureus (1)	6	Pathogenic
70	Agaricus campestris	6	Non-pathogenic
71	Trichoderma aureoviride IMI 91968	6	Non-pathogenic
72	Aspergillus fumigatus	6	Non-pathogenic
73	Sulfitobacter sp. Bio-007	6	Non-pathogenic
74	Cenococcum geophilum	6	Non-pathogenic
75	Wolinella curva CCUG 13146 (35224)	6	Non-pathogenic
76	aerobic Gram-negative bacteria	6	Non-pathogenic
77	K.pneumoniae (2)	6	Pathogenic
78	S.aureus (2)	6	Pathogenic
79	Trichoderma pseudokoningii (T64)	6	Non-pathogenic
80	Streptomyces antibioticus CBS 659.68	6	Non-pathogenic
81	psychrotrophic bacteria	6	Non-pathogenic
82	Trichoderma viride (T60)	6	Non-pathogenic
83	Thermomonospora fusca	6	Non-pathogenic
84	Alternaria Alternata	6	Non-pathogenic
85	Paenibacillus polymyxa (BMP-11)	6	Non-pathogenic
86	Puccinia graminis var. tritici	6	Non-pathogenic

87	Trichoderma sp.	6	Non-pathogenic
88	E.coli (2)	6	Pathogenic
89	Bacillus amyloliquefaciens IN937a	6	Non-pathogenic
90	Bacillus subtilis GB03	6	Non-pathogenic
91	Penicillium digitatum	6	Non-pathogenic
92	Bacillus spp.	6	Non-pathogenic
93	Citrobacter freundii	6	Non-pathogenic
94	Micrococcus luteus	6	Non-pathogenic
95	Staphylococcus aureus	6	Pathogenic
96	Daedalea juniperina	6	Non-pathogenic
97	Muscodor fengyangensis (ZJLQ023)	6	Non-pathogenic
98	Muscodor fengyangensis (ZJLQ024)	6	Non-pathogenic
99	Oscillatoria perornata	6	Non-pathogenic
100	Spirulina platensis	6	Non-pathogenic
101	Penicillium clavigerum	6	Non-pathogenic
102	Xanthomonas campestris pv campestris	6	Non-pathogenic
103	Roseovarius spp.	6	Non-pathogenic
104	benthic cyanobacteria (Calothrix, Plectonema)	6	Non-pathogenic
105	Cyanobacterial biofilms	6	Non-pathogenic
106	Aerobasidium pullulans	6	Non-pathogenic
107	E.coli (6)	6	Pathogenic
108	Dipodascus aggregatus	6	Non-pathogenic
109	Pseudomonas solanacearum	6	Non-pathogenic
110	Aspergillus clavatus	6	Non-pathogenic
111	Blastomyces dermatitidis	6	Non-pathogenic
112	Ceratocystis fimbriata	6	Non-pathogenic
113	Mucor hiemalis	6	Non-pathogenic
114	Tuber borchii 43BO	6	Non-pathogenic
115	Tuber borchii ATCC 96540	6	Non-pathogenic
116	Tuber melanosporum Bal1	6	Non-pathogenic
117	Tuber melanosporum Rey t	6	Non-pathogenic
118	Bifidobacterium adolescentis DPC6044	6	Non-pathogenic
119	Lactobacillus brevis DPC6108	6	Non-pathogenic
120	Anabaena	6	Non-pathogenic
121	Fossombronia pusilla	6	Non-pathogenic
122	Lyngbya	6	Non-pathogenic
123	Sigmatella aurantiaca	6	Non-pathogenic
124	Streptomyces sulfureus	6	Non-pathogenic
125	Streptomyces UC5319	6	Non-pathogenic
126	Pseudomonas fluorescens AN5	6	Non-pathogenic
127	Fomes annosus	6	Non-pathogenic
128	Flavobacteria sp.	6	Non-pathogenic
129	Chromobacterium sp.	6	Non-pathogenic
130	Clitocybe geotropa	6	Non-pathogenic
131	Fomes scutellatus	6	Non-pathogenic

132	Marasmius oreacles	6	Non-pathogenic
133	Pholiota aurea	6	Non-pathogenic
134	Pantoea agglomerans spp.	6	Non-pathogenic
135	Pseudonocardia sp.	6	Non-pathogenic
136	Saccharomonospora sp.	6	Non-pathogenic
137	Thermomonospora sp.	6	Non-pathogenic
138	Lactobacillus fermentum	6	Non-pathogenic
139	Fomes pomaceus	6	Non-pathogenic
140	Alphaproteobacteria ( Rhizobium , Sphingomonas , Methylobacterium , Roseovarius)	6	Non-pathogenic
141	Betaproteobacteria (Variovorax , Zoglota)	6	Non-pathogenic
142	Deleya spp.	6	Non-pathogenic
143	Photobacterium spp.	6	Non-pathogenic
144	Plantibacter spp.	6	Non-pathogenic
145	Pseudoalteromonas spp.	6	Non-pathogenic
146	Rhizobium spp.	6	Non-pathogenic
147	Rhodococcus spp.	6	Non-pathogenic
148	Sphingomonas spp.	6	Non-pathogenic
149	Variovorax spp.	6	Non-pathogenic
150	Vibrio spp.	6	Non-pathogenic
151	Zoglota spp.	6	Non-pathogenic
152	Bacillus popillae	6	Non-pathogenic
153	Penicillium chrysogenum (IBT 15921)	6	Non-pathogenic
154	Penicillium chrysogenum (IBT 15996)	6	Non-pathogenic
155	Azoarcus evansii	6	Non-pathogenic
156	Acinetobacter calcoaceticus	6	Non-pathogenic
157	Tilletia caries	6	Non-pathogenic
158	Tilletia controversa	6	Non-pathogenic
159	Tilletia foetida	6	Non-pathogenic
160	Bacillus thuringensis	6	Non-pathogenic
161	Chondromyces crocatus Cm c2	7	Non-pathogenic
162	Chondromyces crocatus Cm c5	7	Non-pathogenic
163	Myxobacterium spp.	8	Non-pathogenic
164	Myxococcus xanthus	8	Non-pathogenic
165	Stigmatella aurantiaca	9	Non-pathogenic
166	Stigmatella aurantiaca DW4/3-1	9	Non-pathogenic
167	Stigmatella aurantiaca Sg a15	9	Non-pathogenic
168	Streptomyces caviscabies	10	Non-pathogenic
169	Streptomyces sp. GWS-BW-H5.	10	Non-pathogenic
170	Streptomyces coelicolor	11	Non-pathogenic
171	Streptomyces albidoflavus	11	Non-pathogenic
172	Streptomyces albidoflavus AMI 246	11	Non-pathogenic
173	Streptomyces albus	11	Non-pathogenic
174	Streptomyces albus IFO 13014	11	Non-pathogenic
175	Streptomyces antibioticus	11	Non-pathogenic

176	<i>Streptomyces antibioticus</i> ETH 22014	11	Non-pathogenic
177	<i>Streptomyces aureofaciens</i> ETH 13387	11	Non-pathogenic
178	<i>Streptomyces coelicolor</i> ATCC 21666	11	Non-pathogenic
179	<i>Streptomyces coelicolor</i> DSM 40233	11	Non-pathogenic
180	<i>Streptomyces diastatochromogenes</i> IFO 13814	11	Non-pathogenic
181	<i>Streptomyces griseus</i> ATCC 23345	11	Non-pathogenic
182	<i>Streptomyces griseus</i> IFO 13849	11	Non-pathogenic
183	<i>Streptomyces hirsutus</i> ATCC 19773	11	Non-pathogenic
184	<i>Streptomyces hirsutus</i> ETH 1666	11	Non-pathogenic
185	<i>Streptomyces hygroscopicus</i> ATCC 27438	11	Non-pathogenic
186	<i>Streptomyces murinus</i> DSM 40091	11	Non-pathogenic
187	<i>Streptomyces murinus</i> NRRL 8171	11	Non-pathogenic
188	<i>Streptomyces olivaceus</i> ETH 6445	11	Non-pathogenic
189	<i>Streptomyces olivaceus</i> ETH 7437	11	Non-pathogenic
190	<i>Streptomyces rishiriensis</i> AMI 224	11	Non-pathogenic
191	<i>Streptomyces</i> spp. AMI 240	11	Non-pathogenic
192	<i>Streptomyces</i> spp. AMI 243	11	Non-pathogenic
193	<i>Streptomyces thermoviolaceus</i> CBS 111.62	11	Non-pathogenic
194	<i>Actinomycetes</i>	11	Non-pathogenic
195	<i>Streptomyces albus</i> subsp. <i>pathocidicus</i> IFO 13812	11	Non-pathogenic
196	<i>Streptomyces antibioticus</i> CBS 659.68	11	Non-pathogenic
197	<i>Streptomyces aureofaciens</i> ETH 28832	11	Non-pathogenic
198	<i>Streptomyces diastatochromogenes</i> ETH 18822	11	Non-pathogenic
199	<i>Streptomyces hygroscopicus</i> IFO 13255	11	Non-pathogenic
200	<i>Streptomyces thermoviolaceus</i> IFO 12382	11	Non-pathogenic
201	<i>Streptomyces</i> spp.	12	Non-pathogenic
202	<i>Bacillus</i>	13	Non-pathogenic
203	<i>Tuber borchii</i>	14	Non-pathogenic
204	<i>Tuber indicum</i>	15	Non-pathogenic
205	marine <i>Streptomyces</i> (isolate B6007)	16	Non-pathogenic
206	<i>Prevotella buccae</i> ATCC 33574	16	Non-pathogenic
207	<i>Prevotella buccae</i> ES12-B	16	Non-pathogenic
208	<i>Prevotella buccae</i> ES17-1	16	Non-pathogenic
209	<i>Prevotella buccae</i> ES9-1	16	Non-pathogenic
210	<i>Prevotella disiens</i> DSM 20516	16	Non-pathogenic
211	<i>Prevotella heparinolyticus</i> ATCC 35895	16	Non-pathogenic
212	<i>Prevotella oris</i> ATCC 33573	16	Non-pathogenic
213	<i>Prevotella oris</i> ES14B-3A	16	Non-pathogenic
214	<i>Prevotella oris</i> ES9-3	16	Non-pathogenic
215	<i>Prevotella oris</i> RPG	16	Non-pathogenic
216	<i>Prevotella veroralis</i> ATCC 33779	16	Non-pathogenic
217	<i>Porphyromonas endodontalis</i> HG 181 (H 11a-e)	16	Non-pathogenic
218	<i>Porphyromonas endodontalis</i> HG 182 (BN 11a-f)	16	Non-pathogenic
219	<i>Porphyromonas endodontalis</i> HG 370 (ATCC 35406)	16	Non-pathogenic
220	<i>Porphyromonas endodontalis</i> HG 412	16	Non-pathogenic

221	<i>Prevotella oralis</i> ES4-B	16	Non-pathogenic
222	<i>Bacteroides fragilis</i>	16	Non-pathogenic
223	<i>Bacteroides fragilis</i> ATCC 25285	16	Non-pathogenic
224	<i>Prevotella oralis</i> ES14B-3A	16	Non-pathogenic
225	<i>Prevotella oralis</i> ES15-2	16	Non-pathogenic
226	ARK10063	17	Non-pathogenic
227	<i>Bjerkandera adusta</i>	17	Non-pathogenic
228	<i>Bjerkandera adusta</i> CBS 595.78	17	Non-pathogenic
229	<i>Armillaria mellea</i>	18	Non-pathogenic
230	<i>Pholiota squarrosa</i>	18	Non-pathogenic
231	<i>Stropharia rugosoannulata</i>	18	Non-pathogenic
232	<i>Verticillium longisporum</i>	19	Non-pathogenic
233	<i>Candida tropicalis</i>	19	Non-pathogenic
234	<i>Salmonella enterica</i>	19	Non-pathogenic
235	<i>Shigella flexneri</i>	19	Non-pathogenic
236	<i>Tuber panniferum</i>	19	Non-pathogenic
237	<i>Tuber excavatum</i>	19	Non-pathogenic
238	<i>Penicillium aurantiogriseum</i>	19	Non-pathogenic
239	<i>Ascocoryne sarcoides</i> NRRL 50072	19	Non-pathogenic
240	<i>Aspergillus ornatus</i>	19	Non-pathogenic
241	<i>Neurospora sitophila</i> ATCC 46892	19	Non-pathogenic
242	<i>Neurospora</i> sp.	19	Non-pathogenic
243	<i>Penicillium chrysogenum</i>	19	Non-pathogenic
244	<i>penicillium paneum</i> (Conidia)	19	Non-pathogenic
245	<i>Tuber uncinatum</i>	19	Non-pathogenic
246	<i>Ceratocystis</i> sp.	19	Non-pathogenic
247	<i>Thielaviopsis basicola</i>	19	Non-pathogenic
248	<i>Mycobacterium bovis</i>	19	Non-pathogenic
249	<i>Muscodor albus</i> CZ-620	19	Non-pathogenic
250	<i>Muscodor crispans</i>	19	Non-pathogenic
251	<i>Boletus variegatus</i>	19	Non-pathogenic
252	<i>Fomes</i> sp.	19	Non-pathogenic
253	<i>Dinoroseobacter shibae</i>	20	Non-pathogenic
254	<i>Dinoroseobacter shibae</i> strain DFL-27	20	Non-pathogenic
255	<i>Loktanella</i> sp.	20	Non-pathogenic
256	<i>Loktanella</i> sp. Bio-204	20	Non-pathogenic
257	<i>Carnobacterium divergens</i> 9P	21	Non-pathogenic
258	<i>Dinoroseobacter</i> sp.	22	Non-pathogenic
259	<i>Stigmatella</i> sp.	22	Non-pathogenic
260	<i>Calothrix</i>	23	Non-pathogenic
261	<i>Phormidium</i> sp.	23	Non-pathogenic
262	<i>Plectonema</i>	23	Non-pathogenic
263	<i>Calothrix parietina</i>	23	Non-pathogenic
264	<i>Plectonema notatum</i>	23	Non-pathogenic
265	<i>Plectonema</i> sp.	23	Non-pathogenic

266	Tolypothrix	23	Non-pathogenic
267	Tolypothrix distorta	23	Non-pathogenic
268	Calothrix sp.	23	Non-pathogenic
269	Burkholderia ambifaria LMG 19467	24	Non-pathogenic
270	Burkholderia ambifaria LMG 17828	24	Non-pathogenic
271	Burkholderia ambifaria LMG 19182	24	Non-pathogenic
272	Alcaligenes	25	Non-pathogenic
273	Alcaligenes faecalis	25	Non-pathogenic
274	Arthrobacter nitroguajacoli	25	Non-pathogenic
275	Lysobacter gummosus	25	Non-pathogenic
276	Sporosarcina ginsengisoli	25	Non-pathogenic
277	Stenotrophomonas maltophilia	26	Non-pathogenic
278	Serratia marcescens	26	Non-pathogenic
279	Bacillus simplex	26	Non-pathogenic
280	Bacillus subtilis	26	Non-pathogenic
281	Bacillus weihenstephanensis	26	Non-pathogenic
282	Microbacterium oxydans	26	Non-pathogenic
283	Streptomyces lateritius	26	Non-pathogenic
284	Escherichia coli	27	Pathogenic
285	Burkholderia anthina LMG 20980	27	Non-pathogenic
286	Burkholderia gladioli LMG 2216	27	Non-pathogenic
287	Burkholderia glumae LMG 2196	27	Non-pathogenic
288	Burkholderia caledonica LMG 19076	27	Non-pathogenic
289	Burkholderia caribensis LMG 18531	27	Non-pathogenic
290	Burkholderia caryophylli LMG 2155	27	Non-pathogenic
291	Burkholderia fungorum LMG 16225	27	Non-pathogenic
292	Burkholderia glathei LMG 14190	27	Non-pathogenic
293	Burkholderia lata LMG 22485	27	Non-pathogenic
294	Serratia plymuthica IC14	27	Non-pathogenic
295	Burkholderia graminis LMG 18924	27	Non-pathogenic
296	Cellulomonas uda	27	Non-pathogenic
297	Paenibacillus polymyxa	28	Non-pathogenic
298	Paenibacillus polymyxa E681	28	Non-pathogenic
299	Trichoderma viride	29	Non-pathogenic
300	Tuber aestivum	30	Non-pathogenic
301	Tuber brumale	31	Non-pathogenic
302	Tuber mesentericum	31	Non-pathogenic
303	Tuber rufum	31	Non-pathogenic
304	Tuber simonea	31	Non-pathogenic
305	Pseudomonas fragi 25P	32	Non-pathogenic
306	Burkholderia lata LMG 6993	33	Non-pathogenic
307	Burkholderia phenazinium LMG 2247	33	Non-pathogenic
308	Burkholderia phytofirmans LMG 22487	33	Non-pathogenic
309	Burkholderia pyrrocinia LMG 21822	33	Non-pathogenic
310	Burkholderia terricola LMG 20594	33	Non-pathogenic

311	<i>Chromobacterium violaceum</i>	33	Non-pathogenic
312	<i>Chromobacterium violaceum</i> CV0	33	Non-pathogenic
313	<i>Pseudomonas putida</i>	33	Non-pathogenic
314	<i>Pseudomonas putida</i> ISO	33	Non-pathogenic
315	<i>Serratia marcescens</i> MG1	33	Non-pathogenic
316	<i>Serratia plymuthica</i> HRO-C48	33	Non-pathogenic
317	<i>Burkholderia sacchari</i> LMG 19450	33	Non-pathogenic
318	<i>Burkholderia thailandensis</i> LMG 20219	33	Non-pathogenic
319	<i>Pseudomonas fluorescens</i> WCS 417r	33	Non-pathogenic
320	<i>Serratia entomophila</i> A1MO2	33	Non-pathogenic
321	<i>Serratia proteamaculans</i> B5a	33	Non-pathogenic
322	<i>Burkholderia tropica</i> LMG 22274	34	Non-pathogenic
323	<i>Burkholderia cepacia</i> LMG 1222 358	34	Non-pathogenic
324	<i>Burkholderia hospita</i> LMG 20598	34	Non-pathogenic
325	<i>Burkholderia kururiensis</i> LMG 19447	34	Non-pathogenic
326	<i>Burkholderia phenoliruptrix</i> LMG 22037	34	Non-pathogenic
327	<i>Burkholderia xenovorans</i> LMG 21463	34	Non-pathogenic
328	<i>Serratia</i> sp.	34	Non-pathogenic
329	<i>Pandora</i> norimbergensis LMG 18379	34	Non-pathogenic
330	<i>E.coli</i> (1)	35	Pathogenic
331	<i>E.coli</i> (4)	35	Pathogenic
332	<i>K.pneumoniae</i> (1)	35	Pathogenic
333	<i>K.pneumoniae</i> (3)	35	Pathogenic
334	<i>E.coli</i> (7)	35	Pathogenic
335	<i>E.coli</i> (8)	35	Pathogenic
336	<i>E.coli</i> (9)	35	Pathogenic
337	<i>E.coli</i> (10)	35	Pathogenic
338	<i>E.coli</i> (11)	35	Pathogenic
339	<i>E.coli</i> (12)	35	Pathogenic
340	<i>E.coli</i> (13)	35	Pathogenic
341	<i>E.coli</i> (14)	35	Pathogenic
342	<i>E.coli</i> (15)	35	Pathogenic
343	<i>E.coli</i> (16)	35	Pathogenic
344	<i>E.coli</i> (17)	35	Pathogenic
345	<i>E.coli</i> (18)	35	Pathogenic
346	<i>E.coli</i> (19)	35	Pathogenic
347	<i>E.coli</i> (20)	35	Pathogenic
348	<i>E.coli</i> (21)	35	Pathogenic
349	<i>E.coli</i> (22)	35	Pathogenic
350	<i>E.coli</i> (23)	35	Pathogenic
351	<i>E.coli</i> (24)	35	Pathogenic
352	<i>K.pneumoniae</i> (4)	35	Pathogenic
353	<i>K.pneumoniae</i> (5)	35	Pathogenic
354	<i>K.pneumoniae</i> (6)	35	Pathogenic
355	<i>K.pneumoniae</i> (7)	35	Pathogenic

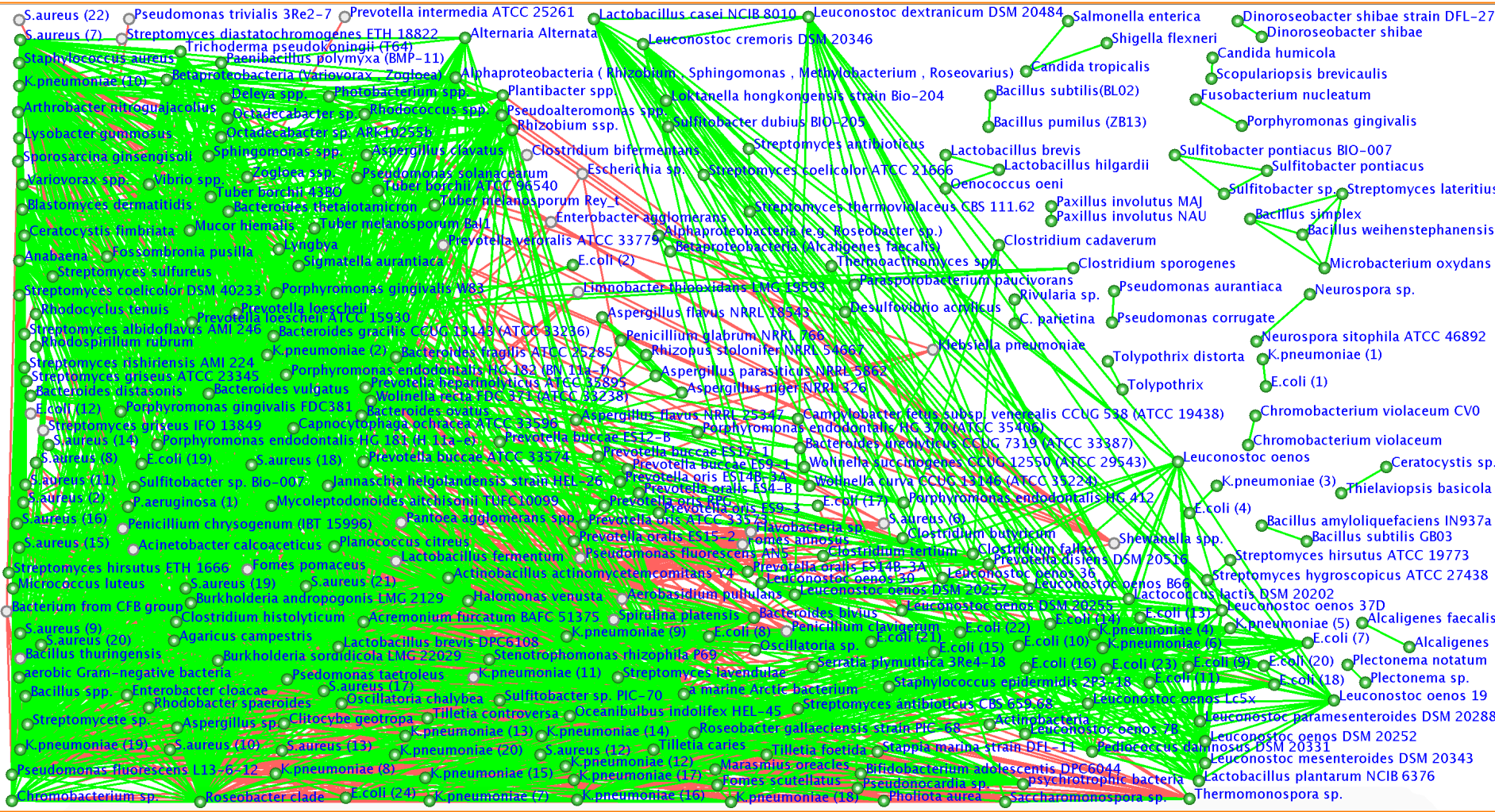


356	K.pneumoniae (8)	35	Pathogenic
357	K.pneumoniae (9)	35	Pathogenic
358	K.pneumoniae (15)	35	Pathogenic
359	K.pneumoniae (16)	35	Pathogenic
360	K.pneumoniae (17)	35	Pathogenic
361	K.pneumoniae (18)	35	Pathogenic
362	P.aeruginosa (1)	35	Pathogenic
363	K.pneumoniae (13)	35	Pathogenic
364	K.pneumoniae (14)	35	Pathogenic
365	Pseudomonas aurantiaca	36	Non-pathogenic
366	Pseudomonas chlororaphis	36	Non-pathogenic
367	Pseudomonas corrugate	36	Non-pathogenic
368	Pseudomonas fluorescens	36	Non-pathogenic
369	Cupriavidus necator LMG 1199	37	Non-pathogenic
370	Klebsiella sp.	37	Non-pathogenic
371	Pseudomonas aeruginosa PUPa3	37	Non-pathogenic
372	Citrobacter sp.	37	Non-pathogenic
373	Enterobacter spp.	37	Non-pathogenic
374	Lactobacillus brevis	37	Non-pathogenic
375	Lactobacillus hilgardii	37	Non-pathogenic
376	Oenococcus oeni	37	Non-pathogenic
377	Lactobacillus lactis	37	Non-pathogenic
378	Alpha proteobacteria	37	Non-pathogenic
379	Gamma proteobacteria	37	Non-pathogenic
380	Klebsiella oxytoca	37	Non-pathogenic
381	Lactobacillus sp.	37	Non-pathogenic
382	Lactococcus sp.	37	Non-pathogenic
383	Schizophyllum commune	37	Non-pathogenic
384	Alphaproteobacteria (e.g. Roseobacter sp.)	37	Non-pathogenic
385	Betaproteobacteria (Alcaligenes faecalis)	37	Non-pathogenic
386	Desulfovibrio acrylicus	37	Non-pathogenic
387	Parasporobacterium paucivorans	37	Non-pathogenic
388	Treponema denticola	37	Non-pathogenic
389	Brevibacterium linens	37	Non-pathogenic
390	Aspergillus flavus	38	Non-pathogenic
391	Aspergillus flavus NRRL 18543	38	Non-pathogenic
392	Aspergillus flavus NRRL 25347	38	Non-pathogenic
393	Aspergillus niger	38	Non-pathogenic
394	Aspergillus niger NRRL 326	38	Non-pathogenic
395	Aspergillus parasiticus NRRL 5862	38	Non-pathogenic
396	Penicillium glabrum NRRL 766	38	Non-pathogenic
397	Rhizopus stolonifer	38	Non-pathogenic
398	Rhizopus stolonifer NRRL 54667	38	Non-pathogenic
399	Serratia proteamaculans 42M	39	Non-pathogenic
400	E. cloacae	40	Pathogenic

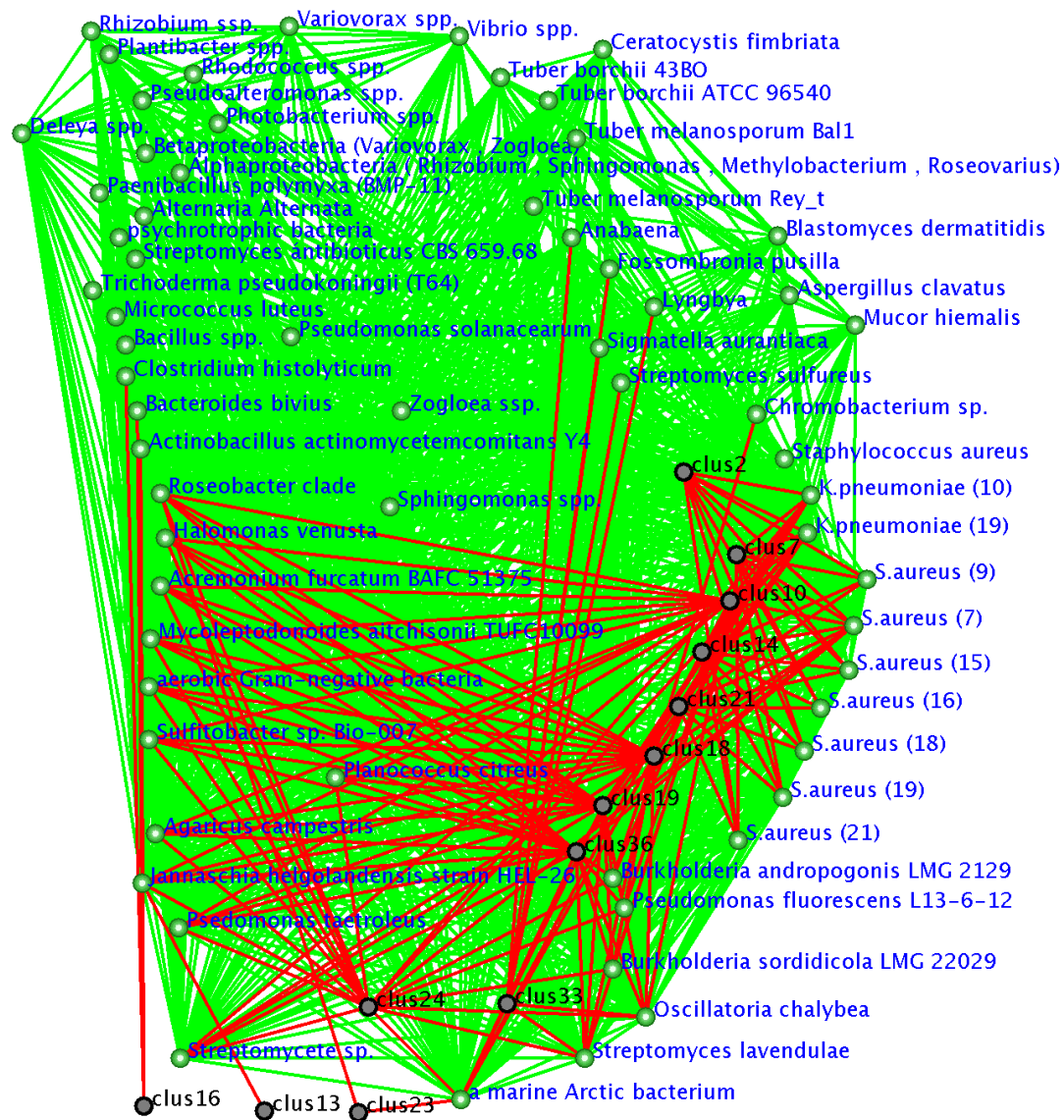
401	S.aureus (3)	40	Pathogenic
402	K.pneumoniae (11)	40	Pathogenic
403	S.aureus (6)	40	Pathogenic
404	S.aureus (8)	40	Pathogenic
405	S.aureus (10)	40	Pathogenic
406	S.aureus (11)	40	Pathogenic
407	S.aureus (13)	40	Pathogenic
408	S.aureus (14)	40	Pathogenic
409	S.aureus (17)	40	Pathogenic
410	S.aureus (20)	40	Pathogenic
411	K.pneumoniae (10)	40	Pathogenic
412	K.pneumoniae (12)	40	Pathogenic
413	K.pneumoniae (19)	40	Pathogenic
414	K.pneumoniae (20)	40	Pathogenic
415	S.aureus (7)	40	Pathogenic
416	S.aureus (9)	40	Pathogenic
417	S.aureus (12)	40	Pathogenic
418	S.aureus (15)	40	Pathogenic
419	S.aureus (16)	40	Pathogenic
420	S.aureus (18)	40	Pathogenic
421	S.aureus (19)	40	Pathogenic
422	S.aureus (21)	40	Pathogenic
423	S.aureus (22)	40	Pathogenic
424	biofilms A (Rivularia sp./C. parietina community)	41	Non-pathogenic
425	C. parietina	41	Non-pathogenic
426	Cyanobacteria	41	Non-pathogenic
427	Rivularia sp.	41	Non-pathogenic
428	Laccaria bicolor	42	Non-pathogenic
429	Paxillus involutus MAJ	42	Non-pathogenic
430	Paxillus involutus NAU	42	Non-pathogenic
431	Penicillium sp.	43	Non-pathogenic
432	Desulfovibrio gigas	43	Non-pathogenic
433	Methanobacterium formicicum	43	Non-pathogenic
434	Methanobacterium thermoautotrophicum	43	Non-pathogenic
435	Methanosarcina barkeri	43	Non-pathogenic
436	Aeromonas veronii	43	Non-pathogenic
437	Geobacillus stearothermophilus	43	Non-pathogenic
438	Clostridium collagenovorans	43	Non-pathogenic
439	Desulfovibrio vulgaris	43	Non-pathogenic
440	Enterobacter cloacae	43	Non-pathogenic
441	Rhodobacter spaeroides	43	Non-pathogenic
442	Rhodocyclus tenuis	43	Non-pathogenic
443	Rhodospirillum rubrum	43	Non-pathogenic
444	Aspergillus sp.	43	Non-pathogenic
445	Candida humicola	43	Non-pathogenic

446	Scopulariopsis brevicaulis	43	Non-pathogenic
447	Methanobacterium sp.	43	Non-pathogenic
448	Bacterium from CFB group	43	Non-pathogenic
449	Saccharomyces cerevisiae Y1001	44	Non-pathogenic
450	Serratia spp. B2675	44	Non-pathogenic
451	Serratia spp. B675	44	Non-pathogenic
452	Saccharomyces cerevisiae	44	Non-pathogenic
453	Xanthomonas campestris pv. vesicatoria 85-10	45	Non-pathogenic
454	Sulfitobacter pontiacus	46	Non-pathogenic
455	Sulfitobacter pontiacus BIO-007	46	Non-pathogenic
456	Sulfitobacter sp.	46	Non-pathogenic
457	Loktanella hongkongensis strain Bio-204	46	Non-pathogenic
458	Sulfitobacter dubius BIO-205	46	Non-pathogenic
459	bacterial strains from the North Sea, the Arctic Ocean, or of terrestrial origin	46	Non-pathogenic
460	Oceanibulbus indolifex HEL-45	46	Non-pathogenic
461	Roseobacter gallaeciensis strain PIC-68	46	Non-pathogenic
462	Stappia marina strain DFL-11	46	Non-pathogenic
463	Sulfitobacter sp. PIC-70	46	Non-pathogenic
464	E.coli (5)	47	Pathogenic
465	S.aureus (4)	47	Pathogenic
466	Staphylococcus sp.	48	Pathogenic
467	Staphylococcus xylosus	48	Pathogenic
468	Clostridium sp.	48	Pathogenic
469	Bacteroides distasonis	48	Non-pathogenic
470	Bacteroides ovatus	48	Non-pathogenic
471	Bacteroides thetaiotamicron	48	Non-pathogenic
472	Bacteroides vulgatus	48	Non-pathogenic
473	Capnocytophaga ochracea ATCC 33596	48	Non-pathogenic
474	Clostridium bifermentans	48	Non-pathogenic
475	Clostridium sporogenes	48	Non-pathogenic
476	Fusobacterium nucleatum	48	Non-pathogenic
477	Porphyromonas gingivalis	48	Non-pathogenic
478	Porphyromonas gingivalis FDC381	48	Non-pathogenic
479	Porphyromonas gingivalis W83	48	Pathogenic
480	Prevotella intermedia ATCC 25261	48	Non-pathogenic
481	Prevotella loescheii	48	Non-pathogenic
482	Prevotella loescheii ATCC 15930	48	Non-pathogenic
483	Veillonella spp.	48	Non-pathogenic
484	Actinobacillus actinomycetemcomitans Y4	48	Non-pathogenic
485	Bacteroides bivius	48	Non-pathogenic
486	Clostridium butyricum	48	Non-pathogenic
487	Clostridium cadaverum	48	Non-pathogenic
488	Clostridium fallax	48	Non-pathogenic
489	Clostridium histolyticum	48	Non-pathogenic
490	Clostridium tertium	48	Non-pathogenic

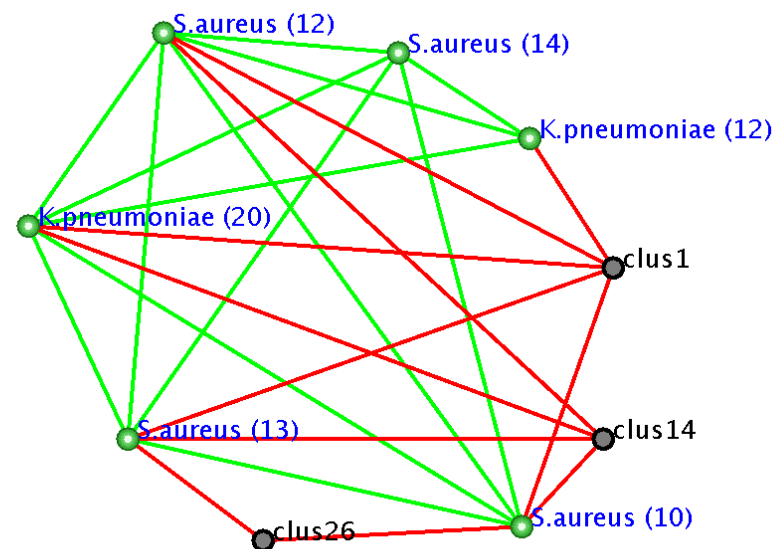
491	<i>Lactobacillus casei</i> NCIB 8010	49	Non-pathogenic
492	<i>Lactobacillus plantarum</i>	49	Non-pathogenic
493	<i>Lactobacillus plantarum</i> NCIB 6376	49	Non-pathogenic
494	<i>Lactococcus lactis</i>	49	Non-pathogenic
495	<i>Lactococcus lactis</i> DSM 20202	49	Non-pathogenic
496	<i>Leuconostoc cremoris</i> DSM 20346	49	Non-pathogenic
497	<i>Leuconostoc dextranicum</i> DSM 20484	49	Non-pathogenic
498	<i>Leuconostoc mesenteroides</i> DSM 20343	49	Non-pathogenic
499	<i>Leuconostoc oenos</i>	49	Non-pathogenic
500	<i>Leuconostoc oenos</i> B66	49	Non-pathogenic
501	<i>Leuconostoc oenos</i> 19	49	Non-pathogenic
502	<i>Leuconostoc oenos</i> 30	49	Non-pathogenic
503	<i>Leuconostoc oenos</i> 36	49	Non-pathogenic
504	<i>Leuconostoc oenos</i> 37D	49	Non-pathogenic
505	<i>Leuconostoc oenos</i> 7B	49	Non-pathogenic
506	<i>Leuconostoc oenos</i> DSM 20252	49	Non-pathogenic
507	<i>Leuconostoc oenos</i> DSM 20255	49	Non-pathogenic
508	<i>Leuconostoc oenos</i> DSM 20257	49	Non-pathogenic
509	<i>Leuconostoc oenos</i> Lc5x	49	Non-pathogenic
510	<i>Leuconostoc paramesenteroides</i> DSM 20288	49	Non-pathogenic
511	<i>Pediococcus damnosus</i> DSM 20331	49	Non-pathogenic
512	<i>Bacteroides gracilis</i> CCUG 13143 (ATCC 33236)	50	Non-pathogenic
513	<i>Bacteroides ureolyticus</i> CCUG 7319 (ATCC 33387)	50	Non-pathogenic
514	<i>Campylobacter fetus</i> subsp. <i>venerealis</i> CCUG 538 (ATCC 19438)	50	Non-pathogenic
515	<i>Wolinella recta</i> FDC 371 (ATCC 33238)	50	Non-pathogenic
516	<i>Wolinella succinogenes</i> CCUG 12550 (ATCC 29543)	50	Non-pathogenic
517	<i>Wolinella curva</i> CCUG 13146 (ATCC 35224)	50	Non-pathogenic



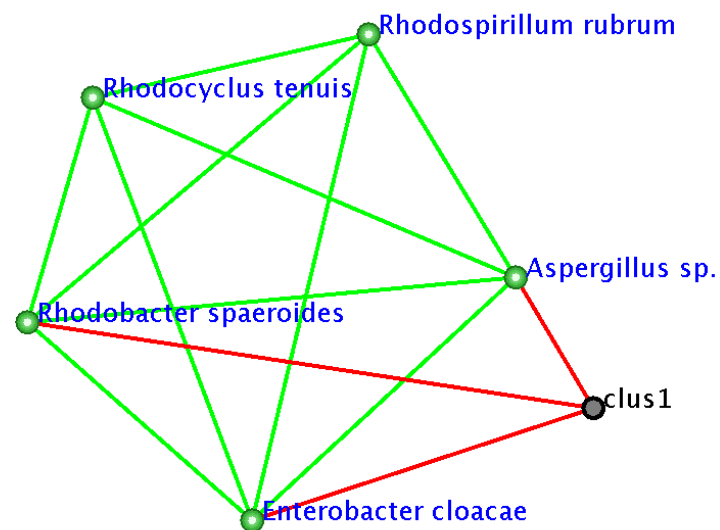
Supplementary Figure 1



(A)

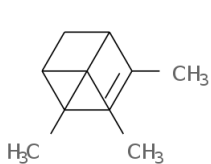


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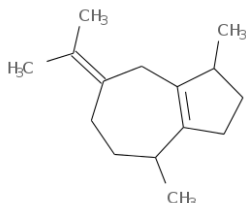


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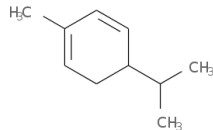
# Cluster 1 (55 VOCs)



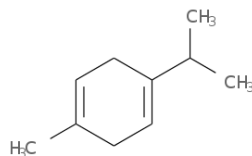
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C10H16



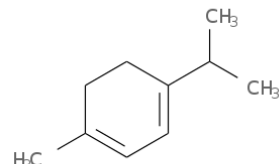
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C15H24



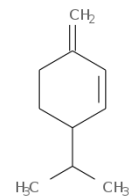
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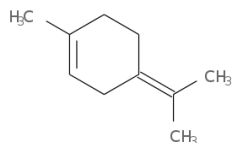
gamma-Terpinen  
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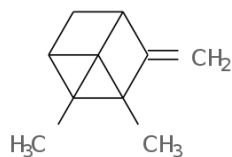
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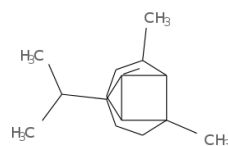
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C10H16



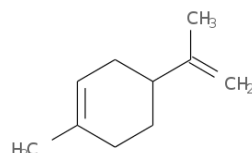
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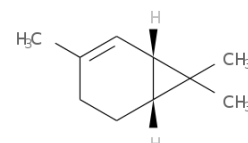
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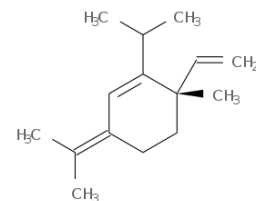
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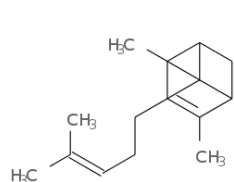
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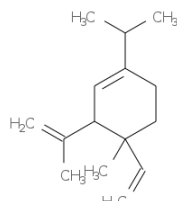
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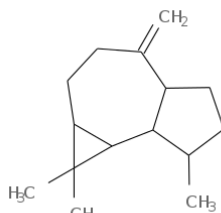
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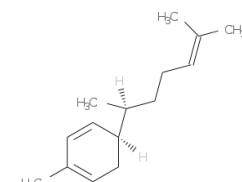
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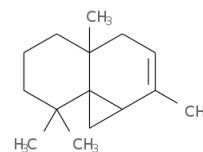
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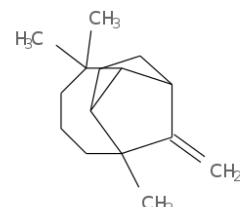
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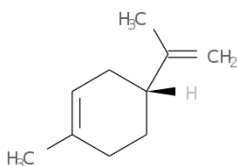
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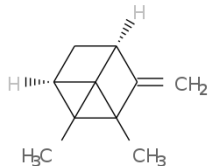
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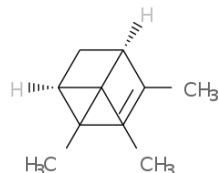
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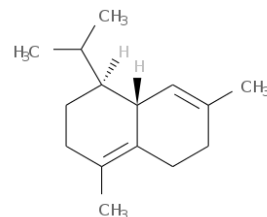
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C10H16



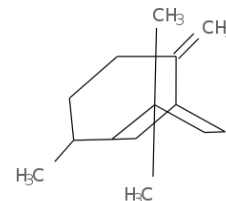
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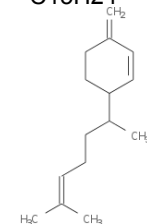
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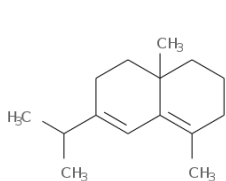
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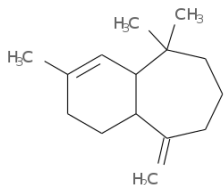
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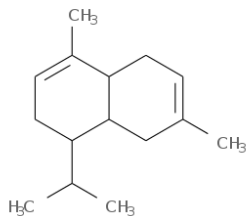
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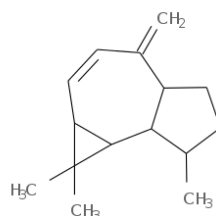
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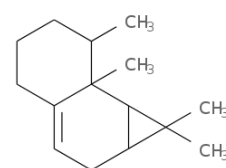
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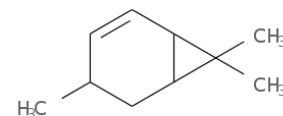
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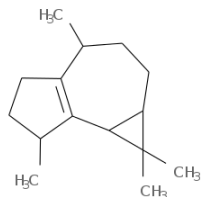
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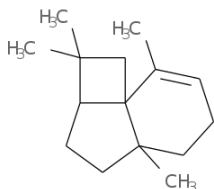
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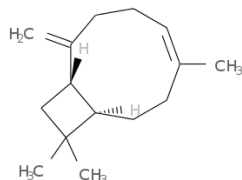
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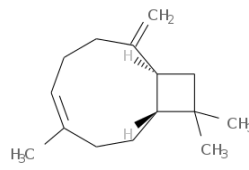
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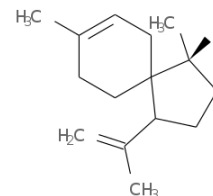
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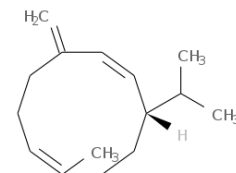
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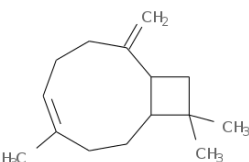
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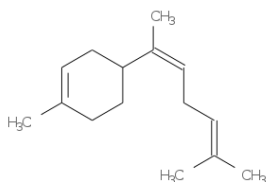
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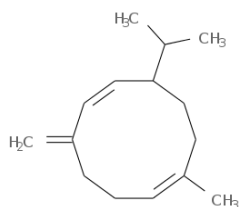
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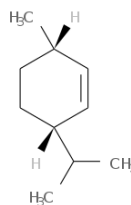
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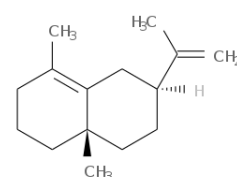
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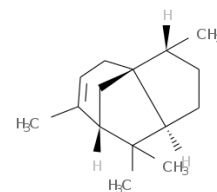
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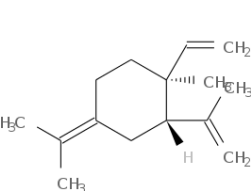
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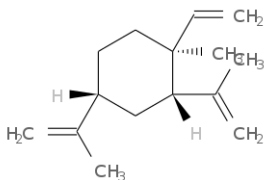
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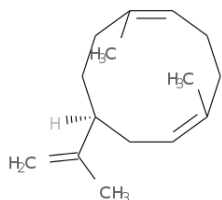
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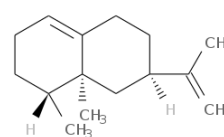
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C15H24



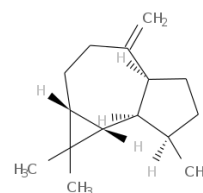
**C00007453**  
**beta-Elementene**  
PubChem CID: 6918391  
C15H24



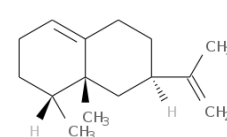
**C00011719**  
**Germacrene A**  
PubChem CID: 9548706  
C15H24



**C00034741**  
**Valencene**  
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C15H24

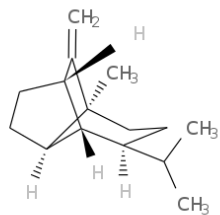


**C00021229**  
**Alloaromadendrene**  
PubChem CID: 10899740  
C15H24

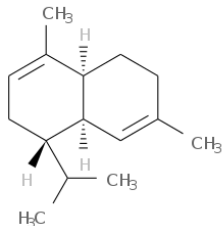


**C00016975**  
**Eremophilene**  
PubChem CID: 11160025  
C15H24

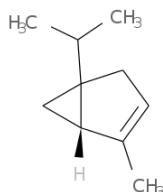




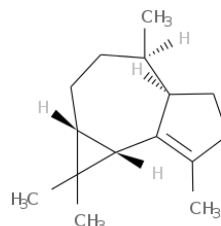
**(+)-Sativene**  
PubChem CID: 11275742  
C<sub>15</sub>H<sub>24</sub>



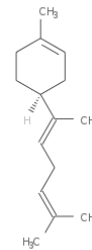
**C00029671**  
**alpha-Murolene**  
PubChem CID: 12306047  
C<sub>15</sub>H<sub>24</sub>



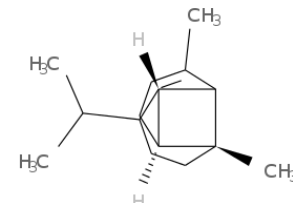
**C00000184**  
**alpha-Thujene**  
PubChem CID: 12444322  
C<sub>10</sub>H<sub>16</sub>



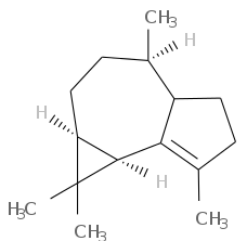
**C00021227**  
**alpha-Gurjunene**  
PubChem CID: 15560276  
C<sub>15</sub>H<sub>24</sub>



**C00050259**  
**Trans-alpha-bisabolene**  
PubChem CID: 24798703  
C<sub>15</sub>H<sub>24</sub>

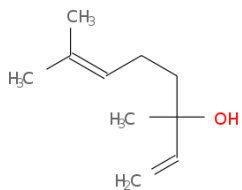


**C00003118**  
**alpha-Copaene**  
PubChem CID: 25245021  
C<sub>15</sub>H<sub>24</sub>

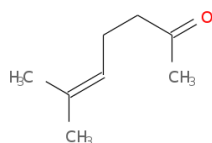


**Gurjunene**  
PubChem CID: 57369711  
C<sub>15</sub>H<sub>24</sub>

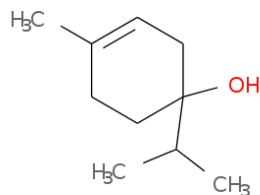
## Cluster 2 (33 VOCs)



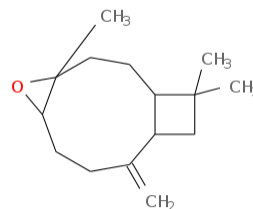
**beta-Linalool**  
PubChem CID: 6549  
C<sub>10</sub>H<sub>18</sub>O



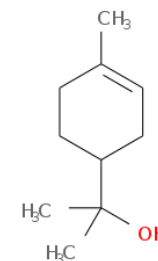
**C00034775**  
**6-Methyl-5-hepten-2-one**  
PubChem CID: 9862  
C<sub>8</sub>H<sub>14</sub>O



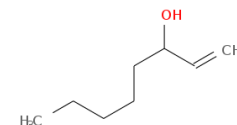
**C00029544**  
**Terpinen-4-ol**  
PubChem CID: 11230  
C<sub>10</sub>H<sub>18</sub>O



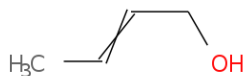
**C00012483**  
**Caryophyllene oxide**  
PubChem CID: 14350  
C<sub>15</sub>H<sub>24</sub>O



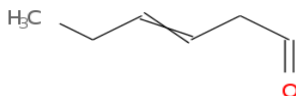
**p-Menth-1-en-8-ol**  
PubChem CID: 17100  
C<sub>15</sub>H<sub>24</sub>O



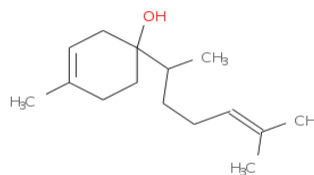
**C00029423**  
**1-Octen-3-ol**  
PubChem CID: 18827  
C<sub>8</sub>H<sub>16</sub>O



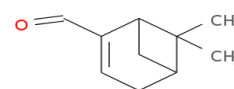
**2-Buten-1-ol**  
PubChem CID: 20024  
C<sub>4</sub>H<sub>8</sub>O



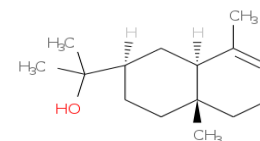
**C00048948**  
**3-Hexenal**  
PubChem CID: 23234  
C<sub>6</sub>H<sub>10</sub>O



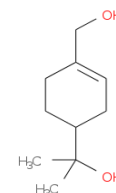
**beta-Bisobolol**  
PubChem CID: 27208  
C<sub>15</sub>H<sub>26</sub>O



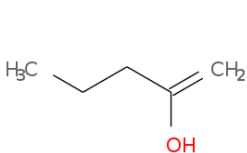
**C00030803**  
**Myrtenal**  
PubChem CID: 61130  
C<sub>10</sub>H<sub>14</sub>O



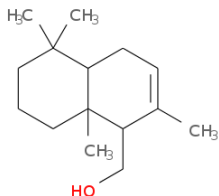
**C00000163**  
**alpha-Eudesmol**  
PubChem CID: 92762  
C<sub>15</sub>H<sub>26</sub>O



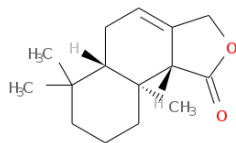
**p-Menth-1-en-8-ol**  
PubChem CID: 110662  
C<sub>10</sub>H<sub>18</sub>O<sub>2</sub>



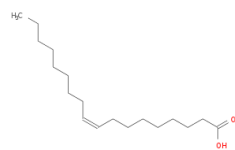
1-Penten-2-ol  
PubChem CID: 173840  
C<sub>5</sub>H<sub>10</sub>O



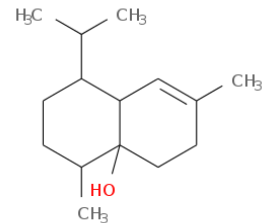
C00020282  
Drimenol  
PubChem CID: 298071  
C<sub>15</sub>H<sub>26</sub>O



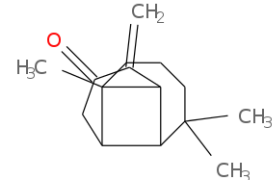
C00003252  
Drimenin  
PubChem CID: 442202  
C<sub>15</sub>H<sub>22</sub>O<sub>2</sub>



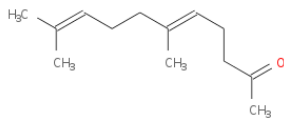
C00001232  
Oleic acid  
PubChem CID: 445639  
C<sub>18</sub>H<sub>34</sub>O<sub>2</sub>



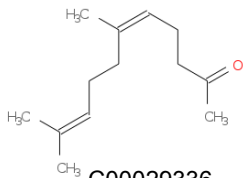
C00033734  
Cubenol  
PubChem CID: 519857  
C<sub>15</sub>H<sub>26</sub>O



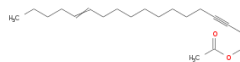
Longipinocarvone  
PubChem CID: 535296  
C<sub>15</sub>H<sub>22</sub>O



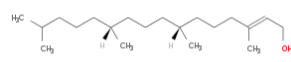
Geranylacetone  
PubChem CID: 1549778  
C<sub>13</sub>H<sub>22</sub>O



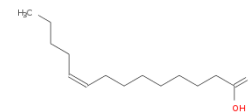
C00029336  
(E)-Geranyl acetone  
PubChem CID: 1713001  
C<sub>13</sub>H<sub>22</sub>O



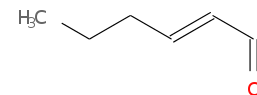
Z-3-Octadecen-1-ol acetate  
PubChem CID: 3085631  
C<sub>20</sub>H<sub>34</sub>O<sub>2</sub>



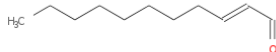
C00003467  
Phytol  
PubChem CID: 5280435  
C<sub>20</sub>H<sub>40</sub>O



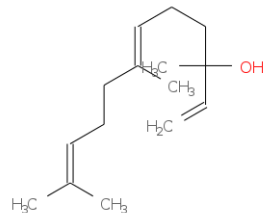
C00001229  
Myristoleic acid  
PubChem CID: 5281119  
C<sub>14</sub>H<sub>26</sub>O<sub>2</sub>



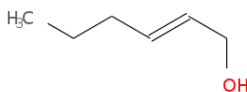
(E)-2-Hexenal  
PubChem CID: 5281168  
C<sub>6</sub>H<sub>10</sub>O



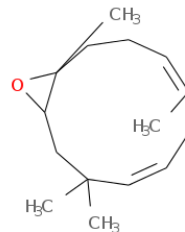
2-Undecenal  
PubChem CID: 5283356  
C<sub>11</sub>H<sub>20</sub>O



C00003166  
Nerolidol  
PubChem CID: 5284507  
C<sub>15</sub>H<sub>26</sub>O



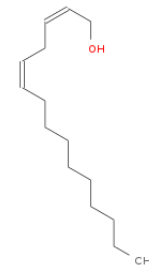
2-Hexenol  
PubChem CID: 5318042  
C<sub>6</sub>H<sub>12</sub>O



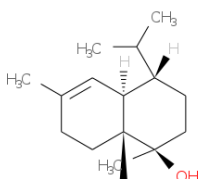
C00012443  
Humulene epoxide  
PubChem CID: 5352470  
C<sub>15</sub>H<sub>24</sub>O



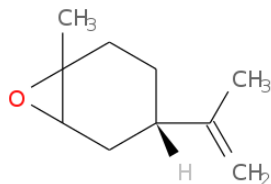
E-2-Methyl-3-tetradecen-1-ol acetate  
PubChem CID: 5363512  
C<sub>17</sub>H<sub>32</sub>O<sub>2</sub>



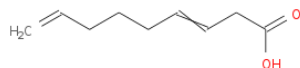
Z,Z-2,5-Pentadecadien-1-ol  
PubChem CID: 5364952  
C<sub>8</sub>H<sub>16</sub>O



C00020065  
alpha-Cadinol  
PubChem CID: 10398656  
C<sub>15</sub>H<sub>26</sub>O


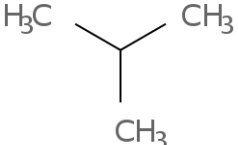
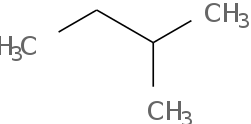
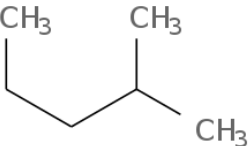
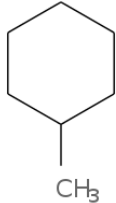
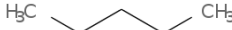

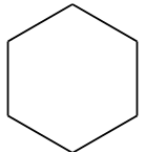

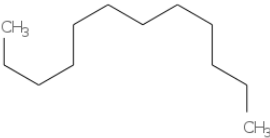
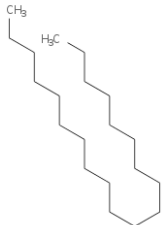

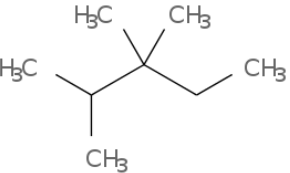
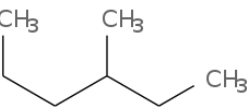
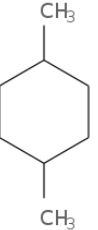
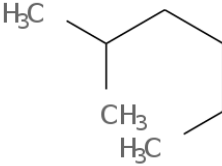
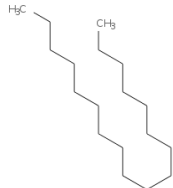
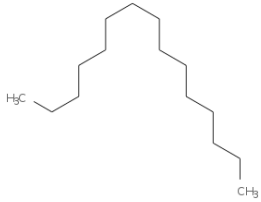
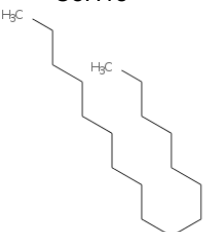
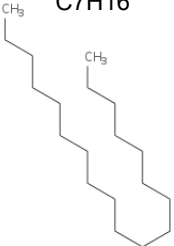
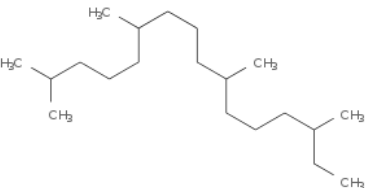
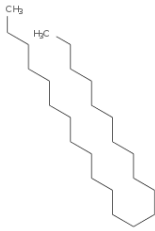
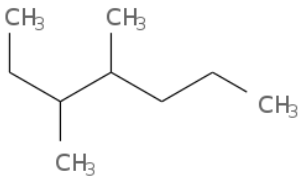
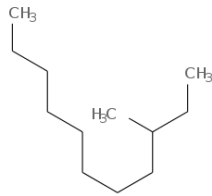


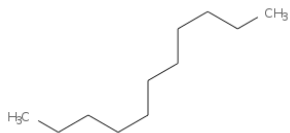
C00035852  
Limonene oxide  
PubChem CID: 10953718  
C<sub>10</sub>H<sub>16</sub>O



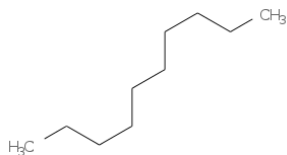
(2E,6E)-2,6-Nonadienoic acid  
PubChem CID: 54098240  
C<sub>9</sub>H<sub>14</sub>O<sub>2</sub>

**Cluster 3 (41 VOCs)**

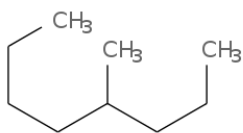
 <p>C00035857 Octane PubChem CID: 356 C8H18</p>	 <p>Isobutane PubChem CID: 6360 C4H10</p>	 <p>2-Methyl-butane PubChem CID: 6556 C5H12</p>	 <p>2-Methylpentane PubChem CID: 7892 C6H14</p>	 <p>C00035853 Methylcyclohexane PubChem CID: 7962 C7H14</p>	 <p>Pentane PubChem CID: 8003 C5H12</p>
 <p>Hexane PubChem CID: 8058 C6H14</p>	 <p>C00007453 Cyclohexane PubChem CID: 8078 C6H12</p>	 <p>C00034882 Nonane PubChem CID: 8141 C9H20</p>	 <p>C00001248 Dodecane PubChem CID: 8182 C12H26</p>	 <p>C00030165 Eicosane PubChem CID: 8222 C20H42</p>	 <p>Heptane PubChem CID: 8900 C7H16</p>
 <p>2,3,3-Trimethylpentane PubChem CID: 11215 C8H18</p>	 <p>C00050708 3-Methylhexane PubChem CID: 11507 C7H16</p>	 <p>1,4-Dimethylcyclohexane PubChem CID: 11523 C8H16</p>	 <p>C00035484 2-Methylhexane PubChem CID: 11582 C7H16</p>	 <p>C00030879 Octadecane PubChem CID: 11635 C18H38</p>	 <p>C00001265 Pentadecane PubChem CID: 12391 C15H32</p>
 <p>C00030472 Heptadecane PubChem CID: 12398 C17H36</p>	 <p>C00030827 Nonadecane PubChem CID: 12401 C19H40</p>	 <p>Phytane PubChem CID: 12523 C20H42</p>	 <p>C00032307 Tetracosane PubChem CID: 12592 C24H50</p>	 <p>2,4-Dimethylheptane PubChem CID: 13534 C9H20</p>	 <p>3-Methylundecane PubChem CID: 13845 C12H26</p>



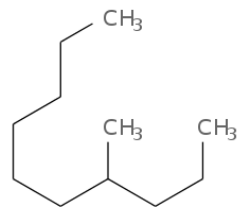
**C00032443**  
Undecane  
PubChem CID: 14257  
C<sub>11</sub>H<sub>24</sub>



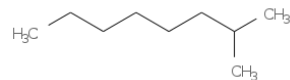
**C00048375**  
Decane  
PubChem CID: 15600  
C<sub>10</sub>H<sub>22</sub>



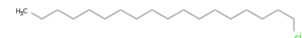
**4-Methyloctane**  
PubChem CID: 16665  
C<sub>9</sub>H<sub>20</sub>



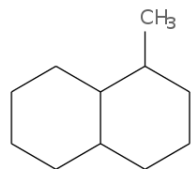
**4-Methyl decane**  
PubChem CID: 17835  
C<sub>11</sub>H<sub>24</sub>



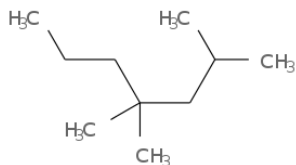
**2-Methyloctane**  
PubChem CID: 18591  
C<sub>9</sub>H<sub>20</sub>



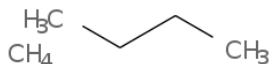
**1-Chlorooctadecane**  
PubChem CID: 18815  
C<sub>18</sub>H<sub>37</sub>Cl



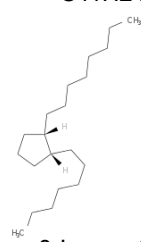
**Trans-anti-1-methyl-decahydronaphthalene**  
PubChem CID: 34193  
C<sub>11</sub>H<sub>20</sub>



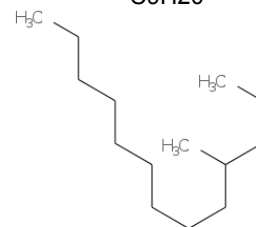
**2,2,4-Trimethylheptane**  
PubChem CID: 77653  
C<sub>10</sub>H<sub>22</sub>



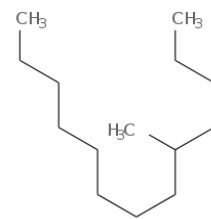
**Alkanes**  
PubChem CID: 94630  
C<sub>5</sub>H<sub>14</sub>



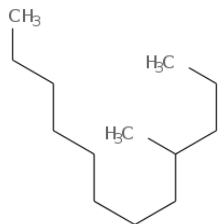
**8-Isoprostane**  
PubChem CID: 107873  
C<sub>20</sub>H<sub>40</sub>



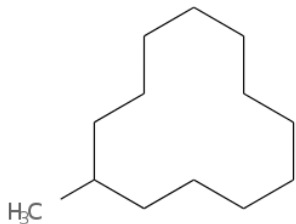
**4-Methyltridecane**  
PubChem CID: 117325  
C<sub>14</sub>H<sub>30</sub>



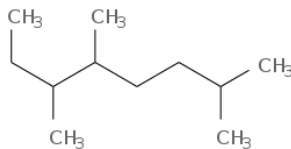
**5-Methyltridecane**  
PubChem CID: 520182  
C<sub>14</sub>H<sub>30</sub>



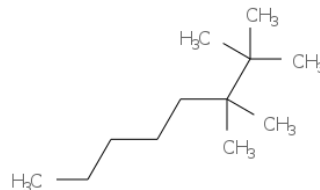
**4-Methyldodecane**  
PubChem CID: 521958  
C<sub>13</sub>H<sub>28</sub>



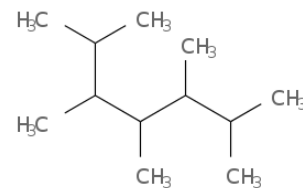
**Methylcyclododecane**  
PubChem CID: 524446  
C<sub>13</sub>H<sub>26</sub>



**2,5,6-Trimethyloctane**  
PubChem CID: 545571  
C<sub>11</sub>H<sub>24</sub>

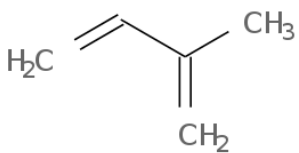


**Pentamethylheptane**  
PubChem CID: 3033849  
C<sub>12</sub>H<sub>26</sub>

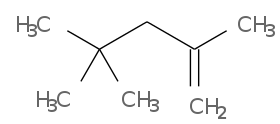


**2,3,4,5,6-Pentamethylheptane**  
PubChem CID: 10910000  
C<sub>12</sub>H<sub>26</sub>

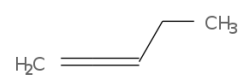
Cluster 4 (18 VOCs)



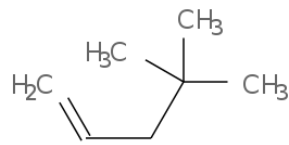
C00046784  
Isoprene  
PubChem CID: 6557  
C5H8



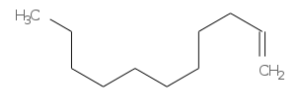
2,4,4-Trimethyl-1-pentene  
PubChem CID: 7868  
C8H16



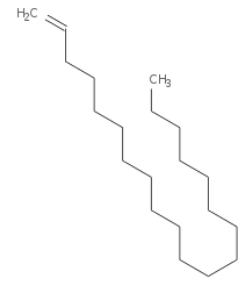
1,2-Pentadiene  
PubChem CID: 11588  
C5H8



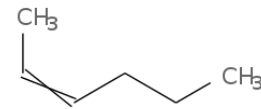
4,4-Dimethyl-1-pentene  
PubChem CID: 12984  
C7H14



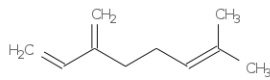
1-Undecene  
PubChem CID: 13190  
C11H22



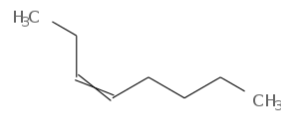
1-Eicosene  
PubChem CID: 18936  
C20H40



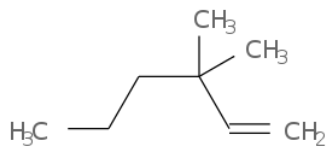
2-Hexene  
PubChem CID: 19966  
C6H12



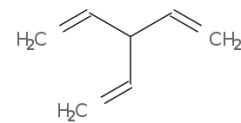
C00000853  
Myrcene  
PubChem CID: 31253  
C10H16



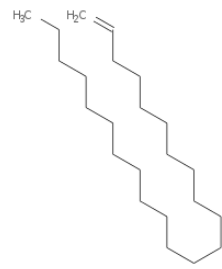
3-Octene  
PubChem CID: 32935  
C8H16



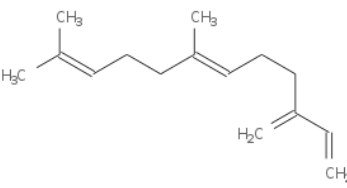
3,3-Dimethylhex-1-ene  
PubChem CID: 137924  
C8H16



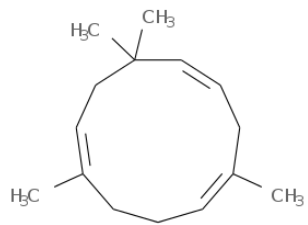
1,4-Pentadiene  
PubChem CID: 141289  
C7H10



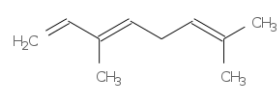
Tricosene  
PubChem CID: 181154  
C23H46



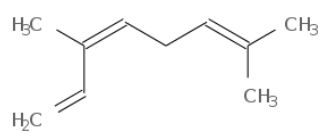
C00003131  
beta-Farnesene  
PubChem CID: 5281517  
C15H24



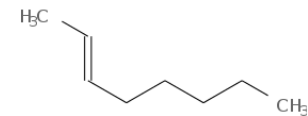
C00003147  
alpha-Caryophyllene  
PubChem CID: 5281520  
C15H24



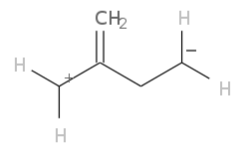
Ocimene  
PubChem CID: 5281553  
C10H16



C00029335  
beta-Ocimene  
PubChem CID: 5320250  
C10H16

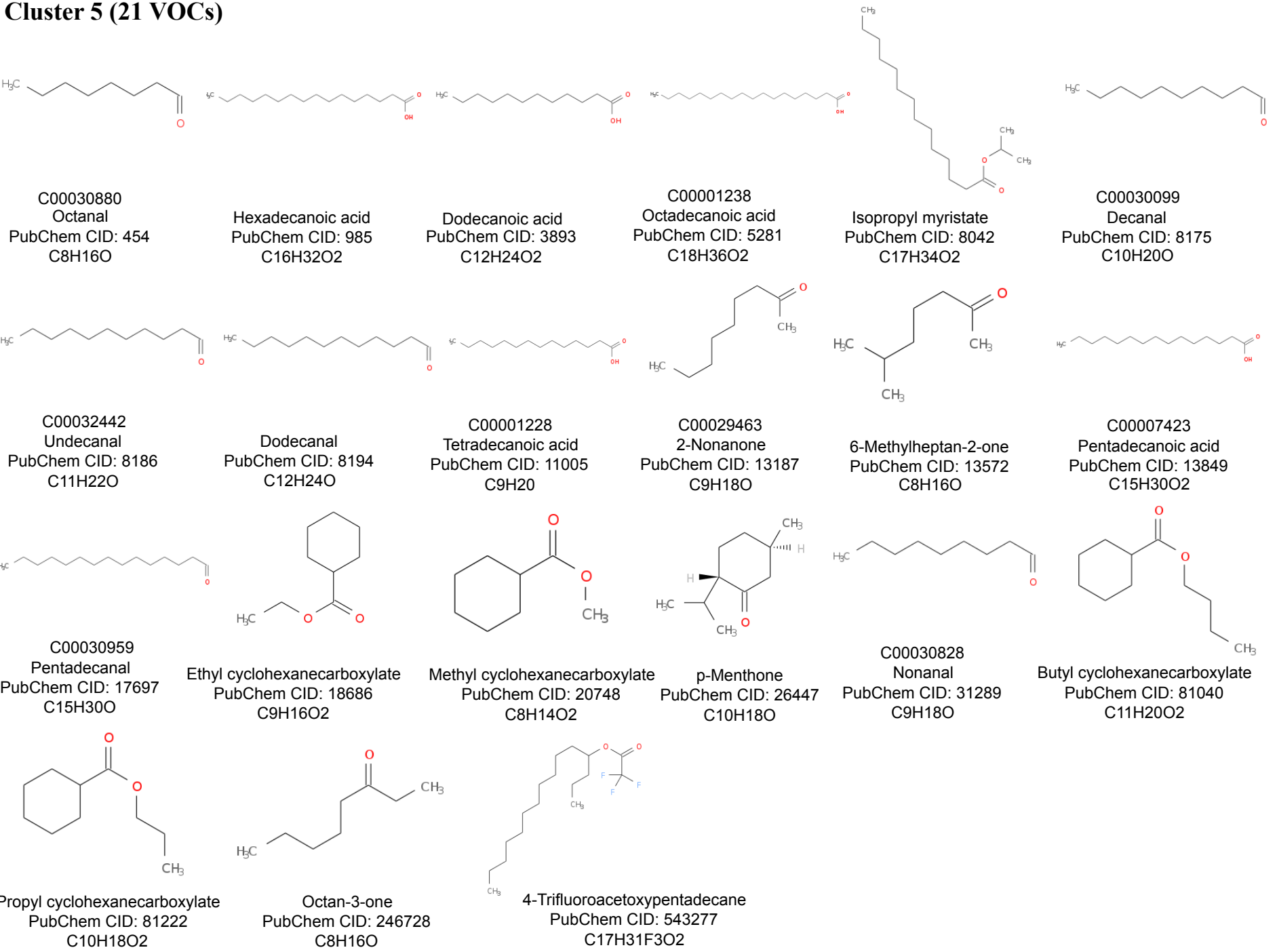


2-Octene  
PubChem CID: 5364448  
C8H16

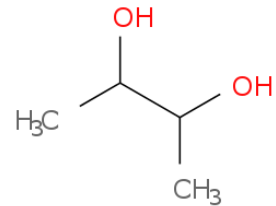


2-Methylbut-1-ene  
PubChem CID: 53627566  
C5H8

Cluster 5 (21 VOCs)



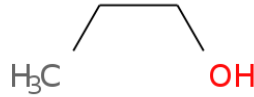
**Cluster 6 (25 VOCs)**



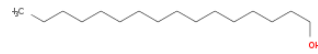
C00050411  
2,3-Butanediol  
PubChem CID: 262  
C4H10O2



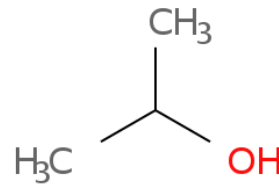
1-Butanol  
PubChem CID: 263  
C4H10O



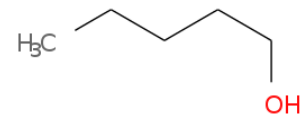
Propanol  
PubChem CID: 1031  
C3H8O



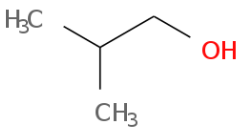
1-Hexadecanol  
PubChem CID: 2682  
C16H34O



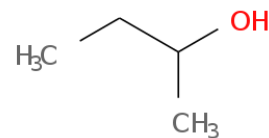
2-Propanol  
PubChem CID: 3776  
C3H8O



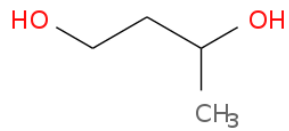
Pentanol  
PubChem CID: 6276  
C5H12O



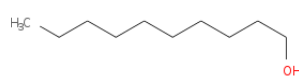
2-Methyl-1-propanol  
PubChem CID: 6560  
C4H10O



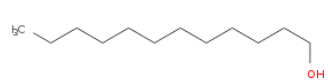
2-Butanol  
PubChem CID: 6568  
C4H10O



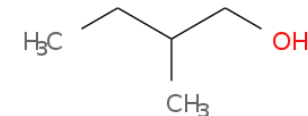
1, 3-butanediol  
PubChem CID: 7896  
C4H10O2



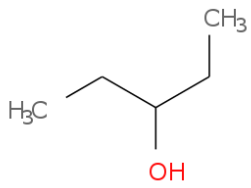
C00030100  
Decanol  
PubChem CID: 8174  
C10H22O



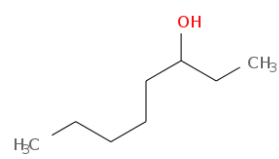
C00030152  
1-Dodecanol  
PubChem CID: 8193  
C12H26O



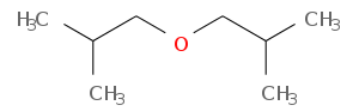
C00050415  
2-Methyl-1-butanol  
PubChem CID: 8723  
C5H12O



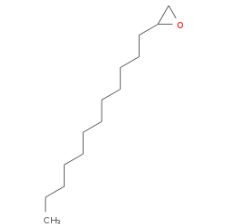
3-Pentanol  
PubChem CID: 11428  
C5H12O



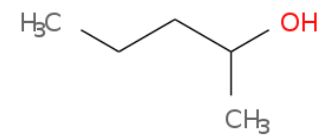
C00035495  
3-Octanol  
PubChem CID: 11527  
C8H18O



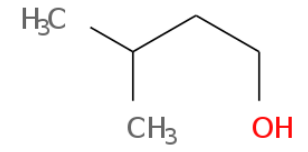
Isobutylether  
PubChem CID: 12346  
C8H18O



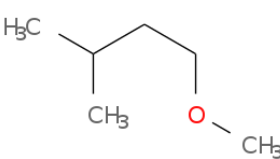
2-Dodecyloxirane  
PubChem CID: 18604  
C14H28O



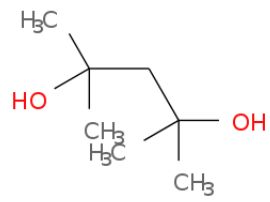
2-Pentanol  
PubChem CID: 22386  
C5H12O



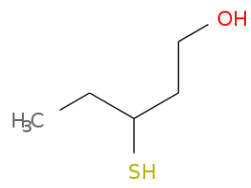
3-Methyl-1-butanol  
PubChem CID: 31260  
C5H12O



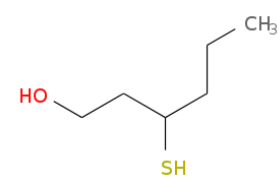
Butane-1-methoxy-3-methyl  
PubChem CID: 136445  
C6H14O



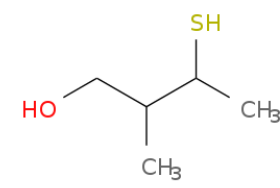
2,4-Dimethylpentane  
PubChem CID: 141153  
C7H16O2



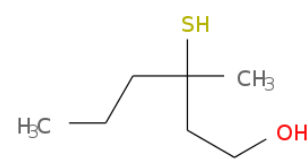
3-Sulfanyl-pentan-1-ol  
PubChem CID: 480012  
C5H12OS



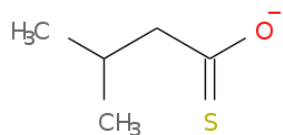
3-Sulfanylhexas-1-ol  
PubChem CID: 521348  
C6H14OS



2-Methyl-3-sulfanylbutan-1-ol  
PubChem CID: 6430892  
C5H12OS

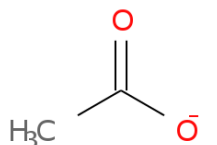


3-Methyl-3-sulfanylhexas-1-ol  
PubChem CID: 10130039  
C7H16OS

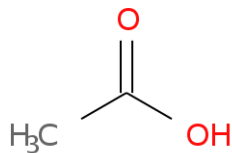


S-Methyl 3-methylbutanethioate  
PubChem CID: 21274855  
C5H9OS-

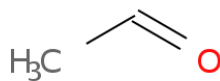
## Cluster 7 (47 VOCs)



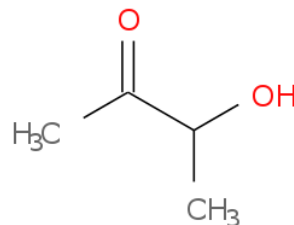
Acetate  
PubChem CID: 175  
C2H3O2-



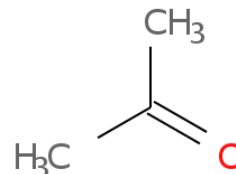
Acetic acid  
PubChem CID: 176  
C2H4O2



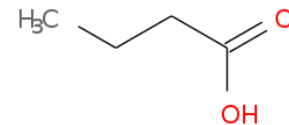
C00007392  
Acetaldehyde  
PubChem CID: 177  
C2H4O



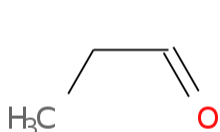
C00050424  
Acetoin  
PubChem CID: 179  
C4H8O2



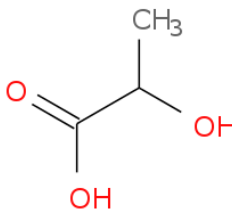
C00048304  
Acetone  
PubChem CID: 180  
C3H6O



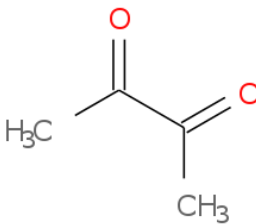
Butanoic acid  
PubChem CID: 264  
C4H8O2



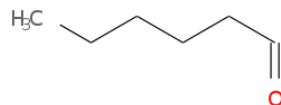
C00050492  
Propanal  
PubChem CID: 527  
C3H6O



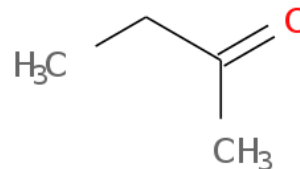
Propanoic acid  
PubChem CID: 612  
C3H6O3



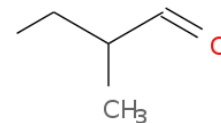
C00050437  
2,3-Butanedione  
PubChem CID: 650  
C4H6O2



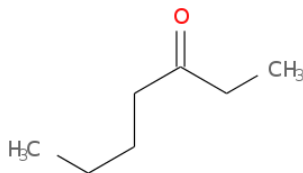
C00000357  
Hexanal  
PubChem CID: 6184  
C6H12O



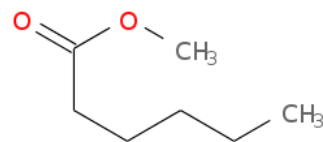
2-Butanone  
PubChem CID: 6569  
C4H8O



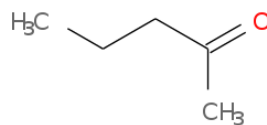
2-Methyl-butanal  
PubChem CID: 7284  
C5H10O



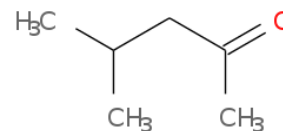
3-Heptanone  
PubChem CID: 7802  
C7H14O



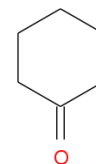
Methyl hexanoate  
PubChem CID: 7824  
C7H14O2



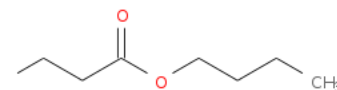
2-Pentanone  
PubChem CID: 7895  
C5H10O



C00051562  
Methyl isobutyl ketone  
PubChem CID: 7909  
C6H12O

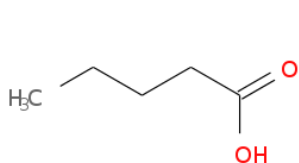


Cyclohexanone  
PubChem CID: 7967  
C6H10O

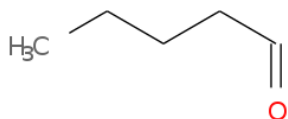


1-Chloro-3-methylbutane  
PubChem CID: 7983  
C8H16O2

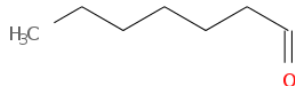




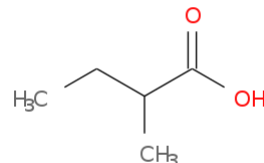
Pentanoic acid  
PubChem CID: 7991  
C<sub>5</sub>H<sub>10</sub>O<sub>2</sub>



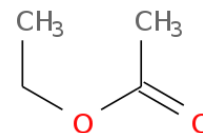
Pentanal  
PubChem CID: 8063  
C<sub>5</sub>H<sub>10</sub>O



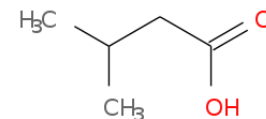
Heptanal  
PubChem CID: 8130  
C<sub>7</sub>H<sub>14</sub>O



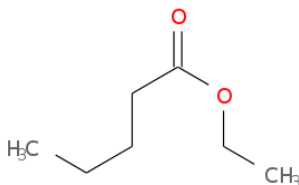
C00029461  
2-Methylbutanoic acid  
PubChem CID: 8314  
C<sub>5</sub>H<sub>10</sub>O<sub>2</sub>



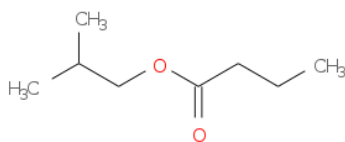
C00001308  
Ethyl acetate  
PubChem CID: 8857  
C<sub>4</sub>H<sub>8</sub>O<sub>2</sub>



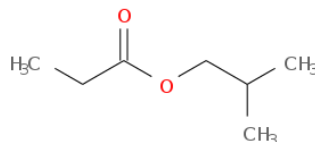
C00001189  
3-Methylbutanoic acid  
PubChem CID: 10430  
C<sub>5</sub>H<sub>10</sub>O<sub>2</sub>



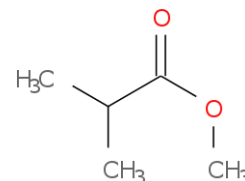
Ethyl valerate  
PubChem CID: 10882  
C<sub>7</sub>H<sub>14</sub>O<sub>2</sub>



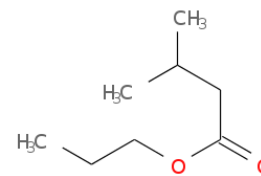
2-Methylpropyl butanoate  
PubChem CID: 10885  
C<sub>8</sub>H<sub>16</sub>O<sub>2</sub>



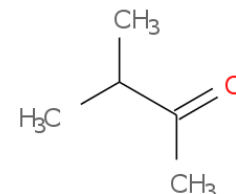
2-Methylpropyl propanoate  
PubChem CID: 10895  
C<sub>7</sub>H<sub>14</sub>O<sub>2</sub>



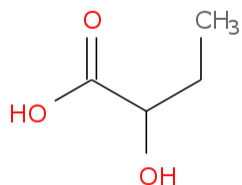
Methyl 2-methylpropanoate  
PubChem CID: 11039  
C<sub>5</sub>H<sub>10</sub>O<sub>2</sub>



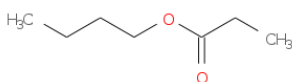
Propyl 3-methylbutanoate  
PubChem CID: 11176  
C<sub>8</sub>H<sub>16</sub>O<sub>2</sub>



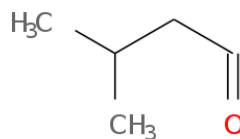
3-Methyl-butan-2-one  
PubChem CID: 11251  
C<sub>5</sub>H<sub>10</sub>O



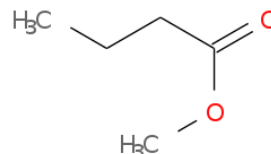
alpha-Hydroxybutyric acid  
PubChem CID: 11266  
C<sub>4</sub>H<sub>8</sub>O<sub>3</sub>



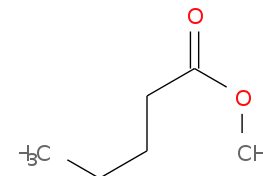
Butyl propanoate  
PubChem CID: 11529  
C<sub>7</sub>H<sub>14</sub>O<sub>2</sub>



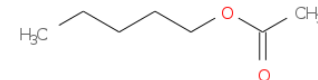
C00048949  
3-Methyl-butanal  
PubChem CID: 11552  
C<sub>5</sub>H<sub>10</sub>O



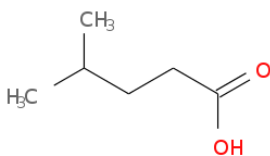
Methyl butanoate  
PubChem CID: 12180  
C<sub>5</sub>H<sub>10</sub>O<sub>2</sub>



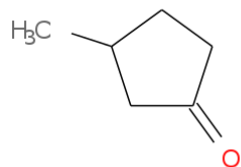
Methyl pentanoate  
PubChem CID: 12206  
C<sub>6</sub>H<sub>12</sub>O<sub>2</sub>



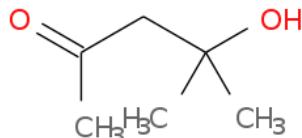
Pentyl acetate  
PubChem CID: 12348  
C<sub>7</sub>H<sub>14</sub>O<sub>2</sub>



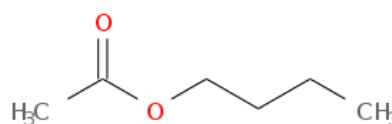
4-Methylpentanoic acid  
PubChem CID: 12587  
C<sub>6</sub>H<sub>12</sub>O<sub>2</sub>



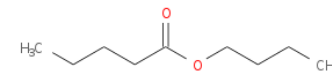
3-Methyl-cyclopentanone  
PubChem CID: 15650  
C<sub>6</sub>H<sub>10</sub>O



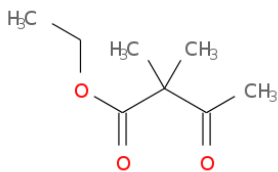
4-Hydroxy-4-methyl-2-pentanone  
PubChem CID: 31256  
C<sub>6</sub>H<sub>12</sub>O<sub>2</sub>



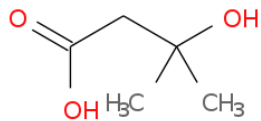
C00048958  
Butyl acetate  
PubChem CID: 31272  
C<sub>6</sub>H<sub>12</sub>O<sub>2</sub>



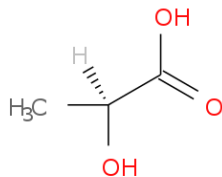
Butyl pentanoate  
PubChem CID: 61137  
C<sub>9</sub>H<sub>18</sub>O<sub>2</sub>



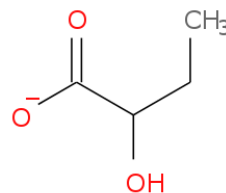
Ethyl 2,2-dimethyl-3-oxobutanoate  
PubChem CID: 69002  
C<sub>8</sub>H<sub>14</sub>O<sub>3</sub>



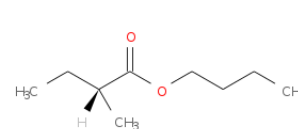
3-Hydroxyisovaleric acid  
PubChem CID: 69362  
C<sub>5</sub>H<sub>10</sub>O<sub>3</sub>



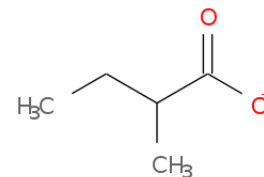
C00050478  
Lactic acid  
PubChem CID: 107689  
C<sub>3</sub>H<sub>6</sub>O<sub>3</sub>



2-Hydroxybutyrate  
PubChem CID: 4071895  
C<sub>4</sub>H<sub>7</sub>O<sub>3</sub><sup>-</sup>

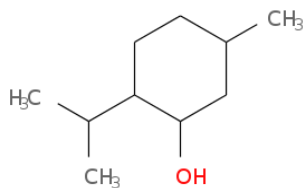


Butyl (2R)-2-methylbutanoate  
PubChem CID: 6997354  
C<sub>9</sub>H<sub>18</sub>O<sub>2</sub>

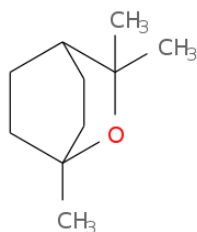


2-Methylbutanoate  
PubChem CID: 22253297  
C<sub>5</sub>H<sub>9</sub>O<sub>2</sub><sup>-</sup>

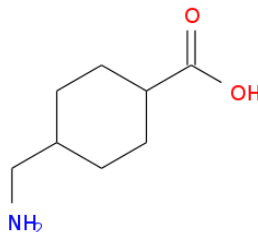
## Cluster 8 (15 VOCs)



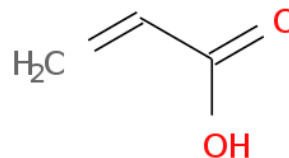
5-Methyl-2-(1-methylethyl)-cyclohexanol  
PubChem CID: 1254  
C<sub>10</sub>H<sub>20</sub>O



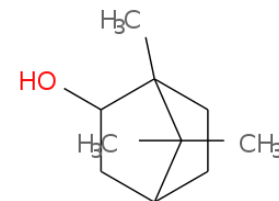
C00000136  
1,8-Cineole  
PubChem CID: 2758  
C<sub>10</sub>H<sub>18</sub>O



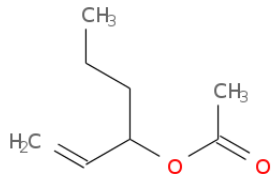
Cyclohexanecarboxylic acid  
PubChem CID: 5526  
C<sub>8</sub>H<sub>15</sub>NO<sub>2</sub>



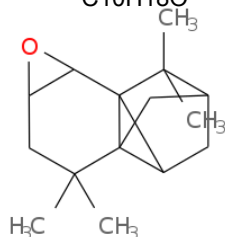
C00034423  
2-Propenoic acid  
PubChem CID: 6581  
C<sub>3</sub>H<sub>4</sub>O<sub>2</sub>



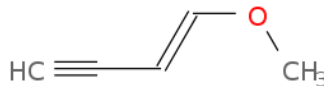
C00003028  
Borneol  
PubChem CID: 64685  
C<sub>10</sub>H<sub>18</sub>O<sub>2</sub>



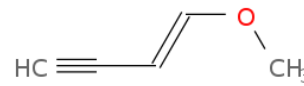
3-Hexenyl acetate  
PubChem CID: 118262  
C<sub>3</sub>H<sub>6</sub>O



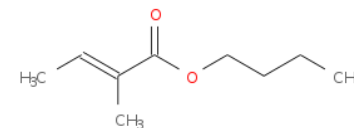
Cyclolongifolene oxide  
PubChem CID: 560863  
C<sub>15</sub>H<sub>22</sub>O



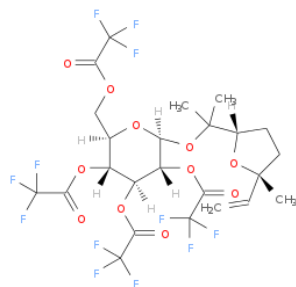
C00030482  
Hexyl tiglate  
PubChem CID: 637523  
C<sub>11</sub>H<sub>20</sub>O<sub>2</sub>



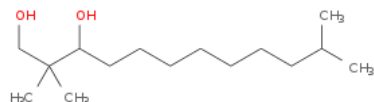
1-Methoxy-1-buten-3-yne  
PubChem CID: 643188  
C<sub>5</sub>H<sub>6</sub>O



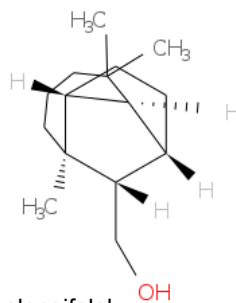
Butyl tiglate  
PubChem CID: 5352450  
C<sub>9</sub>H<sub>16</sub>O<sub>2</sub>



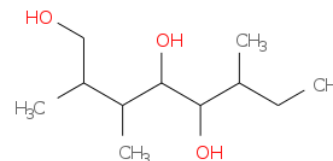
Linalool oxide (furanoid)  
PubChem CID: 6428167  
C<sub>24</sub>H<sub>24</sub>F<sub>12</sub>O<sub>11</sub>



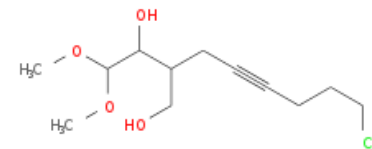
C00011411  
2,6,10-Trimethyldodecane  
PubChem CID: 44145032  
C<sub>15</sub>H<sub>32</sub>O<sub>2</sub>



Isolongifolol  
PubChem CID: 12311096  
C<sub>15</sub>H<sub>26</sub>O

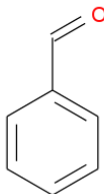


2,3,6-Trimethyloctane  
PubChem CID: 58940158  
C<sub>11</sub>H<sub>24</sub>O<sub>3</sub>

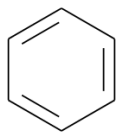


1,4-Dimethoxy-2,3-butanediol  
PubChem CID: 71403024  
C<sub>12</sub>H<sub>29</sub>ClO<sub>8</sub>

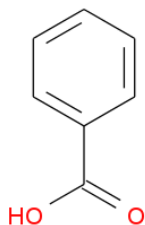
# Cluster 9 (42 VOCs)



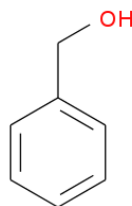
C00034452  
Benzaldehyde  
PubChem CID: 240  
C7H6O



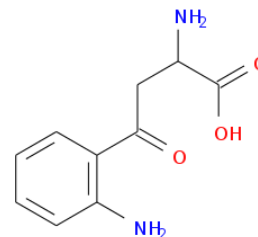
Benzene  
PubChem CID: 241  
C6H6



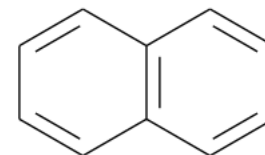
C00000207  
Benzoic acid  
PubChem CID: 243  
C7H6O2



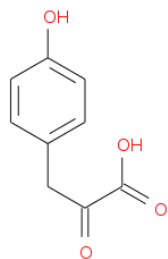
C00029811  
Benzyl alcohol  
PubChem CID: 244  
C7H8O



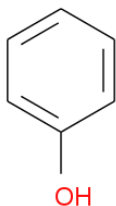
C00051181  
Kynurenine  
PubChem CID: 846  
C10H12N2O3



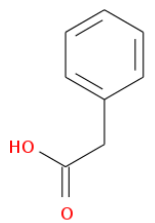
C00001259  
Naphthalene  
PubChem CID: 931  
C10H8



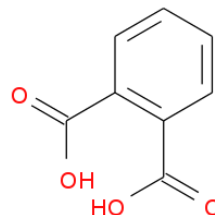
C00007512  
p-Hydroxyphenylpyruvic acid  
PubChem CID: 979  
C9H8O4



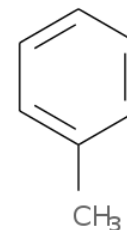
C00002664  
Phenol  
PubChem CID: 996  
C6H6O



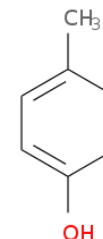
C00000750  
Phenylacetic acid  
PubChem CID: 999  
C8H8O2



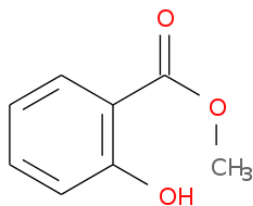
Phthalic acid  
PubChem CID: 1017  
C8H6O4



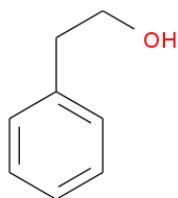
Toluene  
PubChem CID: 1140  
C7H8



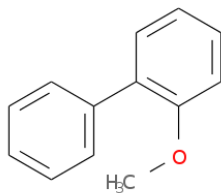
C00002645  
4-Methylphenol  
PubChem CID: 2879  
C7H8O



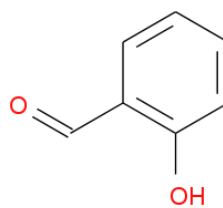
C00030767  
Methyl salicylate  
PubChem CID: 4133  
C8H8O3



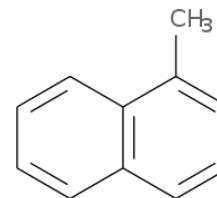
C00002663  
2-Phenylethanol  
PubChem CID: 6054  
C8H10O



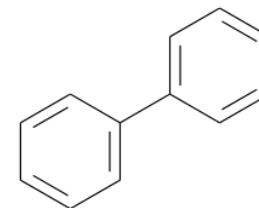
o-Phenylanisole  
PubChem CID: 6835  
C13H12O



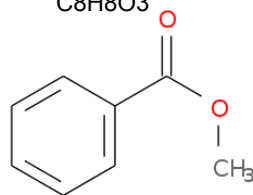
C00031273  
Salicylaldehyde  
PubChem CID: 6998  
C7H6O2



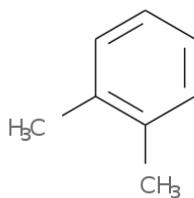
C00050647  
1-Methylnaphthalene  
PubChem CID: 7002  
C11H10



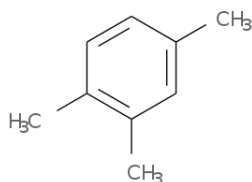
Biphenyl  
PubChem CID: 7095  
C12H10



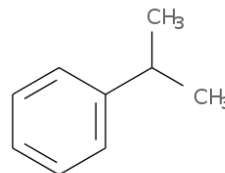
C00034054  
Methyl benzoate  
PubChem CID: 7150  
C8H8O2



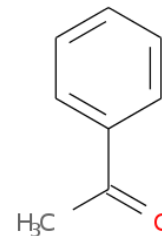
C00035778  
1,3-Dimethylbenzene  
PubChem CID: 7237  
C8H10



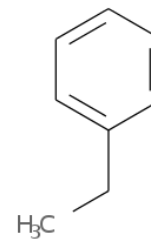
Trimethylbenzene  
PubChem CID: 7247  
C9H12



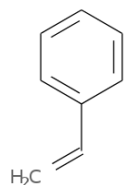
3-(1-methylethyl)-benzene  
PubChem CID: 7406  
C9H12



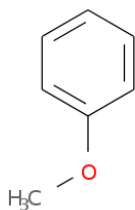
1-Phenyl-ethanone  
PubChem CID: 7410  
C8H8O



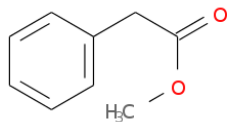
Ethylbenzene  
PubChem CID: 7500  
C8H10



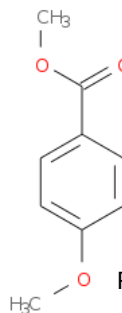
C00037855  
Styrene  
PubChem CID: 7501  
C<sub>8</sub>H<sub>8</sub>



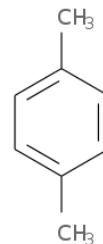
Anisole  
PubChem CID: 7519  
C<sub>7</sub>H<sub>8</sub>O



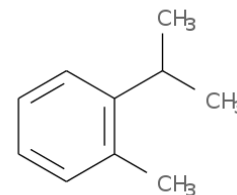
C00051576  
Methyl phenylacetate  
PubChem CID: 7559  
C<sub>9</sub>H<sub>10</sub>O<sub>2</sub>



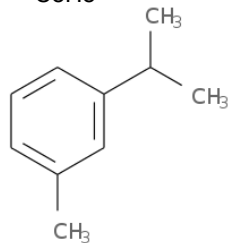
C00030761  
Methyl p-anisate  
PubChem CID: 8499  
C<sub>9</sub>H<sub>10</sub>O<sub>3</sub>



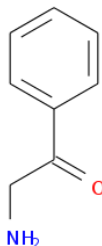
1,4-Xylene  
PubChem CID: 7809  
C<sub>8</sub>H<sub>10</sub>



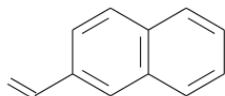
1-Methyl-2-(1-methylethyl)-benzene  
PubChem CID: 10703  
C<sub>10</sub>H<sub>14</sub>



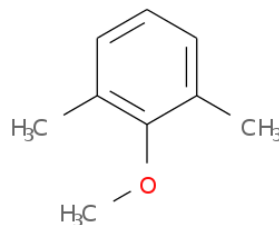
beta-Cymene  
PubChem CID: 10812  
C<sub>10</sub>H<sub>14</sub>



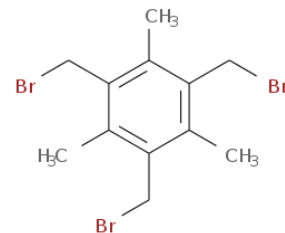
2-Aminoacetophenone  
PubChem CID: 11952  
C<sub>8</sub>H<sub>9</sub>NO



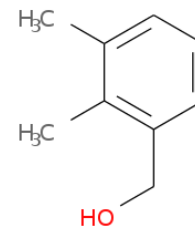
2-Ethenylnaphtalene  
PubChem CID: 13230  
C<sub>12</sub>H<sub>10</sub>



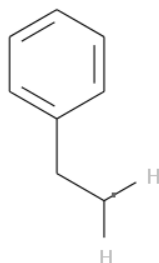
2-Methoxy-1,3-dimethylbenzene  
PubChem CID: 66088  
C<sub>15</sub>H<sub>24</sub>



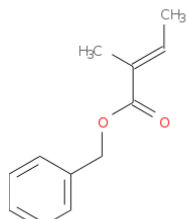
1,2,4-Trimethylbenzene  
PubChem CID: 89140  
C<sub>12</sub>H<sub>15</sub>Br<sub>3</sub>



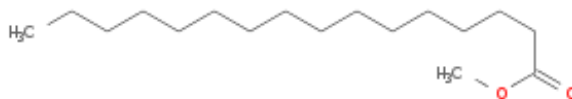
Benzenemethanol  
PubChem CID: 96208  
C<sub>9</sub>H<sub>10</sub>O



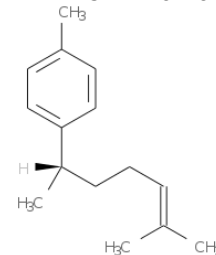
2-Phenylethyl alcohol  
PubChem CID: 146323  
C<sub>8</sub>H<sub>9</sub>



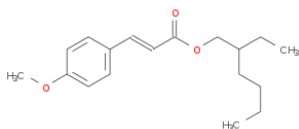
C00048327  
Benzyl tiglate  
PubChem CID: 250096  
C<sub>12</sub>H<sub>14</sub>O<sub>2</sub>



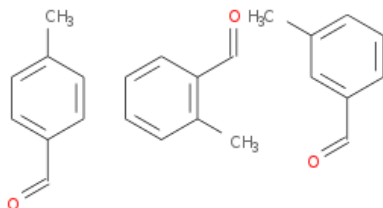
C00030755  
Methyl hexadecanoate  
PubChem CID: 470382  
C<sub>17</sub>H<sub>34</sub>FNO<sub>4</sub>



C00046607  
alpha-Curcumenol  
PubChem CID: 3083834  
C<sub>15</sub>H<sub>22</sub>

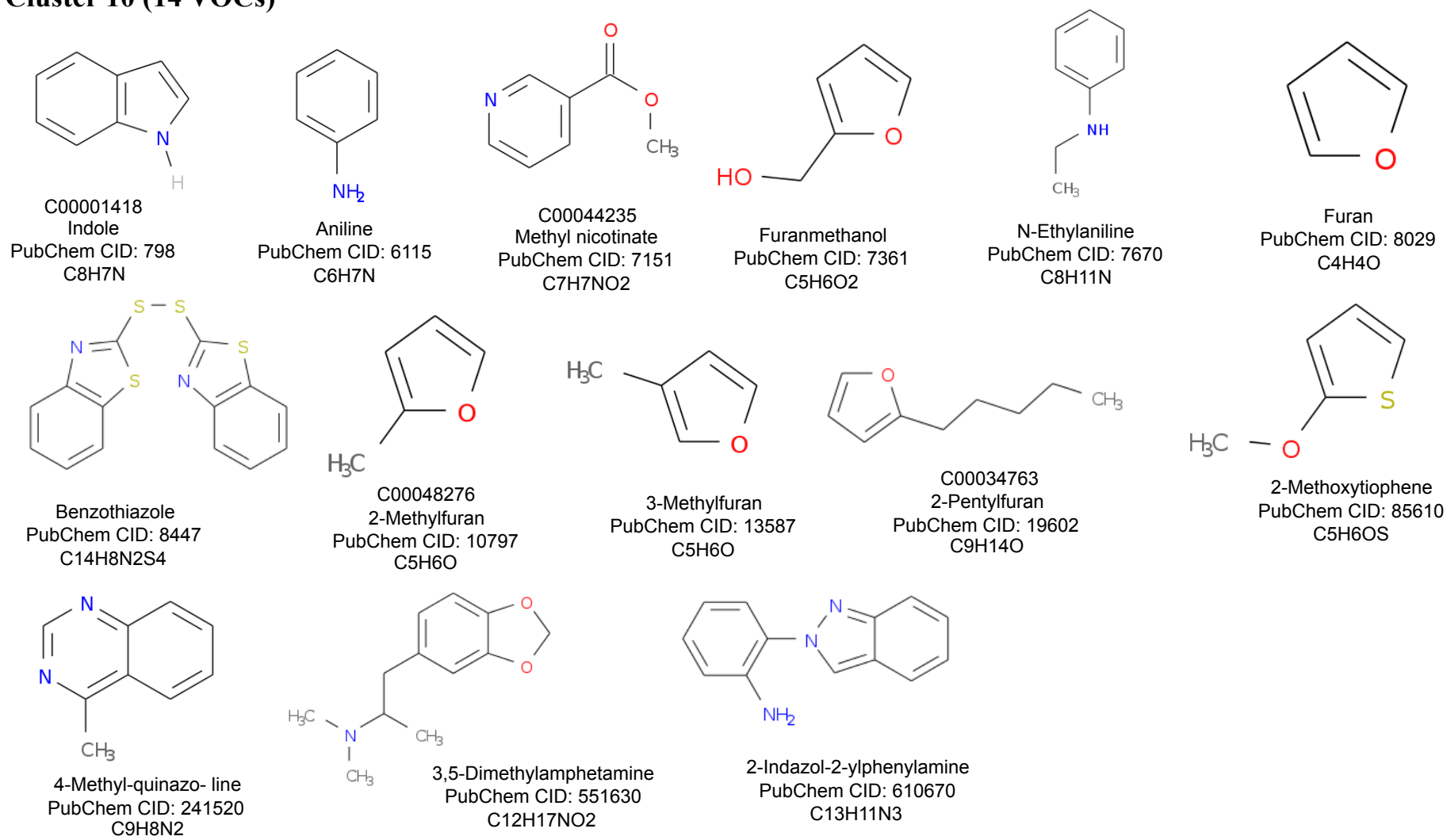


2-Ethylhexyl-4-methoxy-cinnamate  
PubChem CID: 5355130  
C<sub>18</sub>H<sub>26</sub>O<sub>3</sub>

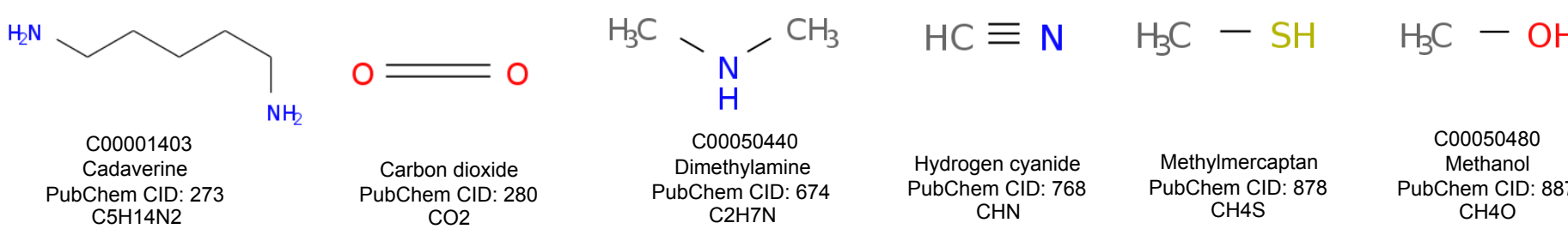


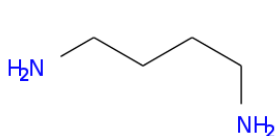
Tolualdehyde  
PubChem CID: 24832083  
C<sub>8</sub>H<sub>8</sub>O

Cluster 10 (14 VOCs)

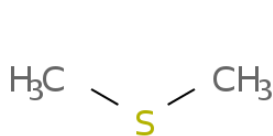


Cluster 11 (30 VOCs)

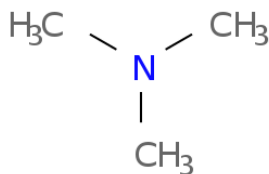




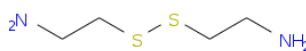
C00001428  
Putrescine  
PubChem CID: 1045  
C<sub>4</sub>H<sub>12</sub>N<sub>2</sub>



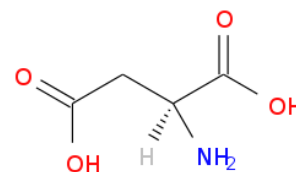
Benzene  
PubChem CID: 1068  
Dimethyl sulfide  
C<sub>2</sub>H<sub>6</sub>S



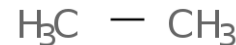
C00001433  
Trimethylamine  
PubChem CID: 1146  
C<sub>3</sub>H<sub>9</sub>N



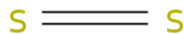
Cystamine  
PubChem CID: 2915  
C<sub>4</sub>H<sub>12</sub>N<sub>2</sub>S<sub>2</sub>



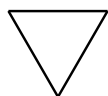
Aspartic acid  
PubChem CID: 5960  
C<sub>4</sub>H<sub>7</sub>NO<sub>4</sub>



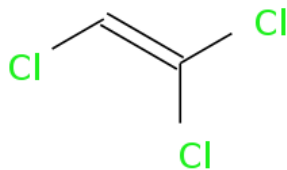
Ethane  
PubChem CID: 6324  
C<sub>2</sub>H<sub>6</sub>



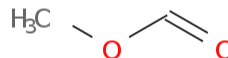
Carbon disulfide  
PubChem CID: 6348  
CS<sub>2</sub>



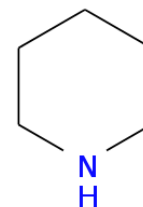
Cyclopropane  
PubChem CID: 6351  
C<sub>3</sub>H<sub>6</sub>



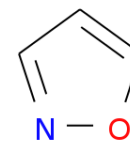
Trichloroethylene  
PubChem CID: 6575  
C<sub>2</sub>HCl<sub>3</sub>



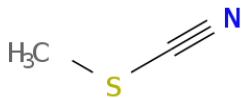
Methyl formate  
PubChem CID: 7865  
C<sub>2</sub>H<sub>4</sub>O<sub>2</sub>



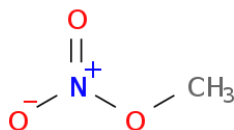
Piperidine  
PubChem CID: 8082  
C<sub>7</sub>H<sub>8</sub>



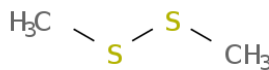
Isoxazole  
PubChem CID: 9254  
C<sub>3</sub>H<sub>3</sub>NO



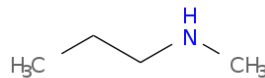
Methyl thiocyanide  
PubChem CID: 11168  
C<sub>2</sub>H<sub>3</sub>NS



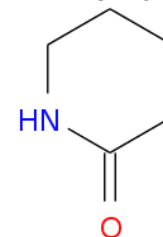
Methyl nitrate  
PubChem CID: 11724  
CH<sub>3</sub>NO<sub>3</sub>



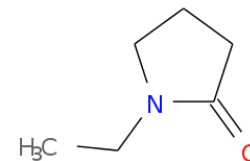
C00001245  
Dimethyl disulfide  
PubChem CID: 12232  
C<sub>2</sub>H<sub>6</sub>S<sub>2</sub>



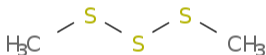
N-Methyl-2-methylpropylamine  
PubChem CID: 12315  
C<sub>4</sub>H<sub>11</sub>N



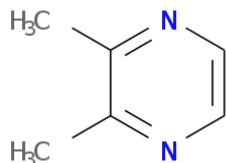
2-Piperidinone  
PubChem CID: 12665  
C<sub>5</sub>H<sub>9</sub>NO



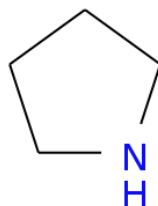
1-Ethyl-2-pyrrolidinone  
PubChem CID: 17595  
C<sub>6</sub>H<sub>11</sub>NO



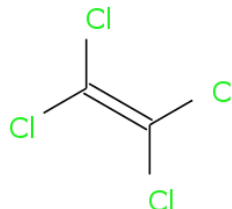
C00001246  
Dimethyl trisulfide  
PubChem CID: 19310  
C<sub>2</sub>H<sub>6</sub>S<sub>3</sub>



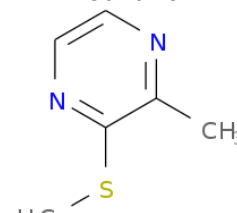
2,3-Dimethyl-pyrazine  
PubChem CID: 22201  
C<sub>6</sub>H<sub>8</sub>N<sub>2</sub>



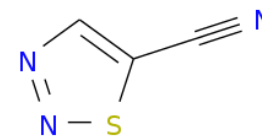
Pyrrolidine  
PubChem CID: 31268  
C<sub>4</sub>H<sub>9</sub>N



Tetrachloroethylene  
PubChem CID: 31373  
C<sub>2</sub>Cl<sub>4</sub>



2-Methyl-pyrazine  
PubChem CID: 76152  
C<sub>6</sub>H<sub>8</sub>N<sub>2</sub>S



5-Cyano-1,2,3-thiadiazole  
PubChem CID: 558078  
C<sub>3</sub>H<sub>3</sub>N<sub>3</sub>S