

参考資料

- 日本香料工業会：平成 12 年度厚生科学研究報告書「日本における食品香料化合物の使用実態調査」(平成 13 年 3 月)
- 日本香料工業会：平成 13 年度厚生労働科学研究報告書「食品用香料及び天然添加物の化学的安全性確保に関する研究(食品香料化合物の使用実態の予備調査)」(平成 14 年 3 月)
- 日本香料工業会：平成 14 年度厚生労働科学研究報告書「食品用香料及び天然添加物の化学的安全性確保に関する研究 (日本における食品香料化合物の使用量調査)」(平成 15 年 3 月)
- 日本香料工業会：平成 15 年度厚生労働科学研究報告書「食品用香料及び天然添加物の化学的安全性確保に関する研究 (日本における食品香料化合物の使用量調査)」(平成 16 年 3 月)
- 日本香料工業会：平成 16 年度厚生労働科学研究報告書「国際的動向を踏まえた食品添加物の規格に関する調査研究 (我が国において使用されている食品香料化合物データベースの高度化に関わる調査研究)」(平成 17 年 3 月)
- 日本香料工業会：平成 17 年度厚生労働科学研究報告書「国際的動向を踏まえた食品添加物の規格に関する調査研究 (我が国を含めて国際的に使用されている食品香料化合物のリスト化及びリスト化合物のデータベース高度化に関わる調査研究)」(平成 18 年 3 月)
- 日本香料工業会：平成 18 年度厚生労働科学委託研究報告書「我が国で使用している食品香料化合物の生産使用量・摂取量に関わる調査研究」(平成 19 年 3 月)
- 日本香料工業会：食品香料化合物データベース 2009 年版

添 付 資 料

資料 1

食品香料化合物データベース (例)

資料 2

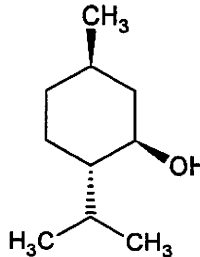
基本回答表

資料 3

追加品目回答表

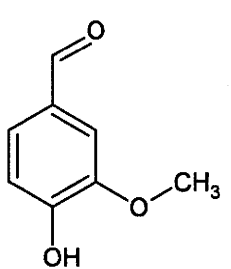
資料1: 食品香料化合物データベース(例1)

JFFMA l-menthol

和名	l-メントール	
JFFMA Synonym	ハッカ脳; (1R,2S,5R)-5-Methyl-2-(1-methylethyl)cyclohexan-1-ol	
My Synonym		
FEMA Synonym	p-Methan-3-ol ; Cyclohexanol, 5-methyl-2-(1-methylethyl)-, (1alpha,2beta,5alpha)-(+/-) ; dl Menthol ; 3-p-Menthanol ; 3-Hydroxy-p-menthane ; 5-Methyl-2-isopropylcyclohexanol ; 5-Methyl-2-isopropylhexahydrophenol ; 1-Methyl-4-isopropylcyclohexan-3-ol ; 5-Methyl-2-(1-methylethyl)cyclohexanol ; MENTHOL RACEMIC	
EU Synonym	Menthol; 2-Isopropyl-5-methylcyclohexanol; Hexahydrothymol; 5-Methyl-2-isopropylhexahydrophenol; 5-Methyl-2-isopropylcyclohexanol; cis(1,3)-trans(1,4)-Menthan-3-ol	
JECFA Name	Menthol	
JFFMA CAS	2216-51-5	
FEMA CAS	89-78-1	15356-70-4
EU CAS	89-78-1	
日本のSEQ	1512	
FDA No	172.515	Synthetic flavoring substances and adjuvants.
FEMA No	2665	
FLAVIS No	02.015	02.218
JECFA No	427	
CoE		
FORMULA	C ₁₀ H ₂₀ O	
Molecular Weight	156.2652	
		
SMILES	C[C@@H]1CC[C@@H](C(C)C)[C@H](O)C1	
韓国	M021	合063
中国	I1067	GB2760-2007
	dl-menthol	
日本の類	7 : 脂肪族高級アルコール類	
EU GROUP	l-メントール	
備考	分離指定品	

資料1:食品香料化合物データベース(例2)

JFFMA vanillin

和名	バニリン	
JFFMA Synonym	ワニリン; 4-Hydroxy-3-methoxybenzaldehyde	
My Synonym		
FEMA Synonym	Benzaldehyde, 4-hydroxy-3-methoxy- ; Vanillic aldehyde ; Vanillaldehyde ; Protocatechualdehyde-3-methyl ether ; Methylprotocatechuic aldehyde ; 3-Methoxy-4-hydroxybenzaldehyde ; 4-Hydroxy-3-methoxybenzaldehyde ; 2-Methoxy-4-formylphenol ; VANILLIN	
EU Synonym	Vanillin; Methyl protocatechuic aldehyde; Protocatechualdehyde-3- methylether; Vanillic aldehyde; Methylprotocatechuic aldehyde; 4- Hydroxy-3-methoxybenzaldehyde	
JECFA Name	Vanillin	
JFFMA CAS	121-33-5	
FEMA CAS	121-33-5	
EU CAS	121-33-5	
日本のSEQ	2488	
FDA No	182.60	Synthetic flavoring substances and adjuvants.
FEMA No	3107	
FLAVIS No	05.018	
JECFA No	889	
CoE	107	
FORMULA	C ₈ H ₈ O ₃	
Molecular Weight	152.1473	
		
SMILES	<chem>Oc1ccc(cc1OC)C=O</chem>	
韓国	V005	合067
中国	I1188 vanillin	GB2760-2007
日本の類	17 : 芳香族アルデヒド類	
EU GROUP	バニリン 23 ベンジル基を有するアルコール類/アルデヒド類/酸類/エステル類 /アセタール類。ベンジルおよびベンゾエートエステルを含む。また脂 肪族の非環式または脂環式のエステルまたはアセタールを化学構造 の一部に含んでもよい	
備考	分離指定品	

調査 NO	使用品目	参考CAS	SEQ	FEMA	使用量 (kg)	含量 (%)	備考
1	acetaldehyde	75-07-0		2003			
2	acetaldehyde amyl butyl acetal		2				
3	acetaldehyde amyl ethyl acetal	13442-89-2	26				
4	acetaldehyde amyl hexyl acetal		3				
5	acetaldehyde amyl methyl acetal	73142-32-2	4				
6	acetaldehyde amyl isoamyl acetal						
7	acetaldehyde amyl propyl acetal						
8	acetaldehyde benzyl ethyl acetal	66222-24-0	5				
9	acetaldehyde benzyl hexyl acetal		6				
10	acetaldehyde benzyl 2-methoxyethyl acetal	7492-39-9	7	2148			
11	acetaldehyde bis(1-carboxyethyl) acetal						
12	acetaldehyde bis(2-methylbutyl) acetal	13535-43-8	12				
13	acetaldehyde 2,3-butanediol acetal	3299-32-9	1				
14	acetaldehyde butyl ethyl acetal	57006-87-8	8				
15	acetaldehyde butyl hexyl acetal		9				
16	acetaldehyde butyl methyl acetal	75677-94-0	10				
17	acetaldehyde butyl 2-methylbutyl acetal						
18	acetaldehyde butyl isoamyl acetal						
19	acetaldehyde butyl phenethyl acetal	64577-91-9	11	3125			
20	acetaldehyde citronellyl ethyl acetal	68928-61-0					
21	acetaldehyde diamyl acetal	13002-08-9	13				
22	acetaldehyde dibenzyl acetal	23556-90-3	14				
23	acetaldehyde dibutyl acetal	871-22-7	15				
24	acetaldehyde diethyl acetal	105-57-7	17	2002			
25	acetaldehyde difurfuryl thioacetal		18				
26	acetaldehyde di-cis-3-hexenyl acetal	63449-64-9	16	4381			
27	acetaldehyde dihexyl acetal	5405-58-3	19				
28	acetaldehyde diisopropyl acetal	4285-59-0	22				
29	acetaldehyde dimethyl acetal	534-15-6	23	3426			

調査 NO	使用品目	参考CAS	SEQ	FEMA	使用量 (kg)	含量 (%)	備考
30	acetaldehyde diisoamyl acetal	13002-09-0	20	4024			
31	acetaldehyde diisobutyl acetal	5669-09-0	21	4527			
32	acetaldehyde diphenethyl acetal	122-71-4					
33	acetaldehyde dipropyl acetal	105-82-8	24				
34	acetaldehyde ethyl ethylvanillin acetal						
35	acetaldehyde ethyl trans-2-hexenyl acetal		31				
36	acetaldehyde ethyl 3-hexenyl acetal		25				
37	acetaldehyde ethyl cis-3-hexenyl acetal	28069-74-1	25	3775			
38	acetaldehyde ethyl hexyl acetal	54484-73-0	27				
39	acetaldehyde ethyl isopropyl acetal	25334-93-4		4432			
40	acetaldehyde ethyl linalyl acetal	40910-49-4	29				
41	acetaldehyde ethyl l-menthyl acetal						
42	acetaldehyde ethyl eugenyl acetal						
43	acetaldehyde ethyl isoeugenyl acetal	84029-92-5					
44	acetaldehyde ethyl methyl acetal	10471-14-4					
45	acetaldehyde ethyl 2-methylbutyl acetal	13602-09-0					
46	acetaldehyde ethyl isoamyl acetal	13442-90-5	28				
47	acetaldehyde ethyl isobutyl acetal	6986-51-2		4528			
48	acetaldehyde ethyl 1-octen-3-yl acetal						
49	acetaldehyde ethyl phenethyl acetal	2556-10-7	30				
50	acetaldehyde ethyl propyl acetal	20680-10-8					
51	acetaldehyde ethyl vanillin acetal		32				
52	acetaldehyde 1,2-glyceryl acetal		33				
53	acetaldehyde glyceryl acetal		33				
54	acetaldehyde hexyl isoamyl acetal	233665-90-2	34	4365			
55	acetaldehyde hexyl isobutyl acetal						
56	acetaldehyde isoamyl 2-methylbutyl acetal						
57	acetaldehyde isoamyl isobutyl acetal	75048-15-6	35				
58	acetaldehyde isoamyl propyl acetal						

調査 NO	使用品目	参考CAS	SEQ	FEMA	使用量 (kg)	含量 (%)	備考
59	acetaldehyde 1,3-octanediol acetal	202188-43-0		4376			
60	acetaldehyde phenethyl propyl acetal	7493-57-4	36	2004			
61	acetaldehyde propyleneglycol acetal	3390-12-3	37	4099			
62	acetic acid	64-19-7	39	2006			
63	acetoin dimethyl acetal	2371-17-7	42				
64	acetoin glyceryl acetal butyric acid ester						
65	acetoin propyleneglycol acetal	94089-23-3	43	4532			
66	acetone	67-64-1	45	3326			
67	acetone dimethyl acetal	77-76-9					
68	acetone glyceryl acetal		46				
69	acetone propyleneglycol acetal	1193-11-9	47	3441			
70	acetophenone	98-86-2	48	2009			
71	acetophenone diethyl acetal	6175-45-7	49				
72	acetophenone neopentylglycol acetal	5406-58-6	2541				
73	acetophenone propyleneglycol acetal		50				
74	3-acetoxy-2-butyl butyrate		52				
75	2-acetoxy-1,8-cineole	72257-53-5					
76	6-acetoxydihydrotheaspirane	72541-09-4		3651			
77	4-acetoxy-3-methoxybenzyl acetate						
78	4-acetoxy-3-pentyltetrahydropyran	18871-14-2	53				
79	1-[4-(acetoxy)phenyl]propyl acetate	129319-15-9		4555			
80	2-acetyl-4-ethylthiazole						
81	acetylcedrene	32388-55-9	76				
82	1-acetylcyclohexyl acetate	52789-73-8		3701			
83	2-acetylcyclopentanone	1670-46-8					
84	5-acetyl-2,3-dihydro-1,4-thiazine	164524-93-0		4296			
85	4-acetyl-6-tert-butyl-1,1-dimethylindane	13171-00-1	74	3653			
86	2-acetyl-3,5-dimethylfuran	22940-86-9		4071			
87	3-acetyl-2,5-dimethylfuran	10599-70-9	63	3391			

調査NO	使用品目	参考CAS	SEQ	FEMA	使用量(kg)	含量(%)	備考
88	4-acetyl-2,5-dimethyl-3(2H)-furanone	36871-78-0		4070			
89	2-acetyl-3,(5or6)-dimethylpyrazine	72797-17-2	67	3327			
90	2-acetyl-3,5-dimethylpyrazine	54300-08-2	68	3327			
91	5-acetyl-2,3-dimethylpyrazine						
92	5-acetyl-2,4-dimethylthiazole	38205-60-6	62	3267			
93	3-acetyl-2,5-dimethylthiophene	2530-10-1	64	3527			
94	2-acetyl-3-ethylpyrazine	32974-92-8	69	3250			
95	2-acetyl-5-ethylpyrazine						
96	2-acetyl-6-ethylpyrazine						
97	2-acetyl-1-ethylpyrrole	39741-41-8		3147			
98	2-acetylfuran	1192-62-7	77	3163			
99	2-acetyl-1-furfurylpyrrole						
100	2-acetyl-3,5,5,6,8,8-hexamethyl-5,6,7,8-tetrahydronaphthalene	21145-77-7					
101	2-acetyl-3-hydroxy-5-methylthiophene	133860-42-1		4142			
102	1-acetylindole	576-15-8					
103	2-acetyl-4-isopropenylpyridine	142896-11-5	2732	4636			
104	4-acetyl-2-isopropenylpyridine	142896-12-6	2747	4637			
105	2-acetyl-4-isopropylpyridine	142896-09-1		4638			
106	2-acetyl-5-methylfuran	1193-79-9	72	3609			
107	2-acetyl-3-methylpyrazine	23787-80-6	70	3964			
108	2-acetyl-5-methylpyrazine						
109	2-acetyl-6-methylpyrazine						
110	2-acetyl-4-methylpyrimidine	71850-85-6					
111	2-acetyl-1-methylpyrrole	932-16-1	60	3184			
112	2-acetyl-5-methylpyrrole	6982-72-5					
113	2-acetyl-4-methylthiazole	7533-07-5	71				
114	2-acetyl-5-methylthiazole						
115	2-acetyl-(3or4)-methylthiophene		1758				
116	2-acetyl-3-methylthiophene	13679-72-6					

調査 NO	使用品目	参考CAS	SEQ	FEMA	使用量 (kg)	含量 (%)	備考
117	2-acetyl-5-methylthiophene	13679-74-8	73	4643			
118	1-acetylnaphthalene	941-98-0	1684				
119	acetylpyrazine	22047-25-2	78	3126			
120	2-acetylpyridine	1122-62-9	79	3251			
121	3-acetylpyridine	350-03-8	80	3424			
122	4-acetylpyridine	1122-54-9	81				
123	2-acetylpyrrole	1072-83-9	82	3202			
124	3-acetylpyrrole		1912				
125	2-acetyl-1-pyrroline	85213-22-5	61	4249			
126	2-acetyl-1,4,5,6-tetrahydropyridine	25343-57-1	2731				
127	2-acetyl-3,4,5,6-tetrahydropyridine	27300-27-2	66				
128	2-acetylthiazole	24295-03-2	83	3328			
129	2-acetyl-2-thiazoline	29926-41-8	65	3817			
130	3-(acetylthio)hexyl acetate	136954-25-1		3816			
131	8-acetylthio-p-menthan-3-one	94293-57-9	85	3809			
132	2-acetylthiophene	88-15-3	84				
133	4-acetyl-2-methylpyrimidine	67860-38-2		3654			
134	aconitic acid	499-12-7	86	2010			
135	adipic acid	124-04-9	88	2011			
136	1,1'-(6a-hydroxy-2,3a,5-trimethyltetrahydrofuro[2,3-d][1,3]dioxole-2,5-diyl)diethanone	18114-49-3		4303			
137	allyl 2-butenate	20474-93-5	100	4072			
138	allyl cyclohexylpropionate	2705-87-5	102	2026			
139	allyl hexanoate	123-68-2	107	2032			
140	S-allyl propanethioate	41820-22-8	129	3329			
141	alpha-copaene	3856-25-5	2886				
142	alpha-isomethylionone	127-51-5	1394				
143	ambrinol	41199-19-3	136				
144	2-aminoacetophenone	551-93-9	138	3906			

調査 NO	使用品目	参考CAS	SEQ	FEMA	使用量 (kg)	含量 (%)	備考
145	amyl acetate	628-63-7	141				
146	amyl acetoacetate						
147	amyl anthranilate	30100-15-3	143				
148	amyl benzoate	2049-96-9	144				
149	amyl benzyl ether	6382-14-5	145				
150	amyl 2-butenate	25415-76-3	148				
151	amyl butyrate	540-18-1	146	2059			
152	amyl cinnamate	3487-99-8	147				
153	alpha-amylcinnamyl propionate						
154	amyl decanoate	5933-87-9	149				
155	amyl formate	638-49-3	150	2068			
156	amyl 2-furoate	4996-48-9	139	2072			
157	amyl heptanoate	7493-82-5	151	2073			
158	amyl hexanoate	540-07-8	152	2074			
159	amyl salicylate	2050-08-0	164				
160	amyl isothiocyanate	629-12-9	155	4417			
161	amyl lactate	6382-06-5	157				
162	amyl laurate	5350-03-8	158				
163	amyl isoeugenyl ether	10484-36-3	1382				
164	amyl methyl disulfide	72437-68-4		4025			
165	amyl angelate	7785-63-9	142				
166	amyl tiglate	7785-65-1	165				
167	amyl 2-methylbutyrate	68039-26-9	140				
168	amyl isovalerate	25415-62-7	156				
169	amyl 4-methylpentanoate		154				
170	amyl isobutyrate	2445-72-9	153				
171	amyl nonanoate	61531-45-1	160				
172	amyl octanoate	638-25-5	161	2079			
173	amyl levulinate	20279-49-6	159				

調査 NO	使用品目	参考CAS	SEQ	FEMA	使用量 (kg)	含量 (%)	備考
174	amyl phenylacetate	5137-52-0	162				
175	amyl propionate	624-54-4	163				
176	amyl valerate	2173-56-0	166				
177	alpha-amylcinnamaldehyde	122-40-7	168	2061			
178	alpha-amylcinnamaldehyde diethyl acetal	60763-41-9	169				
179	alpha-amylcinnamaldehyde dimethyl acetal	91-87-2	170	2062			
180	alpha-amylcinnamyl acetate	7493-78-9	171	2064			
181	alpha-amylcinnamyl alcohol	101-85-9	172	2065			
182	alpha-amylcinnamyl formate	7493-79-0		2066			
183	alpha-amylcinnamyl isovalerate	7493-80-3	173	2067			
184	2-amyl-2-cyclopentenone	25564-22-1	167				
185	alpha-angelicalactone	591-12-8	178	3293			
186	beta-angelicalactone	591-11-7	2914	4438			
187	anisaldehyde 2,3-butanediol acetal						
188	benzaldehyde	100-52-7	200	2127			
189	benzaldehyde dibutyl acetal		201				
190	benzaldehyde diethyl acetal	774-48-1	202				
191	benzaldehyde di-dl-menthyl acetal						
192	benzaldehyde dimethyl acetal	1125-88-8	204	2128			
193	benzaldehyde diisoamyl acetal	94231-95-5	203				
194	benzaldehyde glyceryl acetal	1319-88-6	205	2129			
195	benzaldehyde propyleneglycol acetal	2568-25-4	206	2130			
196	benzenemethanethiol	100-53-8	233	2147			
197	benzenethiol	108-98-5	207	3616			
198	2-benzofurancarbaldehyde	4265-16-1		3128			
199	benzophenone	119-61-9	209	2134			
200	benzothiazole	95-16-9	210	3256			
201	benzothiophene	95-15-8	2860				
202	benzyl acetate	140-11-4	213	2135			

調査 NO	使用品目	参考CAS	SEQ	FEMA	使用量 (kg)	含量 (%)	備考
203	benzyl acetoacetate	5396-89-4	214	2136			
204	benzyl alcohol	100-51-6	215	2137			
205	benzyl anthranilate	82185-41-9	2605				
206	benzyl benzoate	120-51-4	216	2138			
207	benzyl 2-butenolate	65416-24-2	220				
208	benzyl butyl ether	588-67-0	217	2139			
209	benzyl butyrate	103-37-7	218	2140			
210	benzyl cinnamate	103-41-3	219	2142			
211	benzyl decanoate	42175-41-7	221				
212	benzyl 2,3-dimethyl-2-butenolate	7492-69-5		2143			
213	benzyl ethoxyacetate						
214	benzyl ethyl ether	539-30-0	222	2144			
215	benzyl formate	104-57-4	224	2145			
216	benzyl heptanoate	5454-21-7					
217	benzyl hexanoate	6938-45-0	225	4026			
218	benzyl salicylate	118-58-1	241	2151			
219	benzyl isothiocyanate	622-78-6	228	4428			
220	benzyl lactate	2051-96-9	230				
221	benzyl laurate	140-25-0	231				
222	benzyl eugenyl ether	57371-42-3	223				
223	benzyl isoeugenyl ether	120-11-6	1384	3698			
224	benzyl methyl disulfide	699-10-5	234	3504			
225	benzyl methyl ether	538-86-3	235				
226	benzyl methyl sulfide	766-92-7	236	3597			
227	benzyl 2-methyl-2-butenolate	67674-41-3					
228	benzyl tiglate	37526-88-8	242	3330			
229	benzyl isoamyl ether	122-73-6					
230	benzyl 2-methylbutyrate	56423-40-6	212				
231	benzyl isovalerate	103-38-8	229	2152			

調査 NO	使用品目	参考CAS	SEQ	FEMA	使用量 (kg)	含量 (%)	備考
232	benzyl 4-methylphenyl ether	834-25-3					
233	benzyl isobutyrate	103-28-6	227	2141			
234	benzyl isobutyl ether	940-49-8					
235	benzyl nonanoate	6471-66-5	237	4626			
236	benzyl octanoate	10276-85-4	238				
237	benzyl octyl ether	54852-64-1					
238	benzyl levulinate	6939-75-9	232	4623			
239	benzyl phenylacetate	102-16-9	239	2149			
240	benzyl propionate	122-63-4	240	2150			
241	benzyl propyl ether	937-61-1					
242	benzyl valerate	10361-39-4	243				
243	beta-caryophyllene butyrate		2715				
244	beta-caryophyllene isobutyrate		2716				
245	beta-guaiene	88-84-6	1020				
246	beta-naphthyl anthranilate	63449-68-3		2767			
247	bis(2,5-dimethyl-3-furyl) disulfide	28588-73-0		3476			
248	beta-bisabolene	4891-79-6	249				
249	alpha-bisabolene	17627-44-0	248				
250	bisabolene	495-62-5	249	3331			
251	alpha-bisabolol	515-69-5	250	4666			
252	bisabolol						
253	8,8-bis(1H-indol-1-yl)-2,6-dimethyl-2-octanol	67801-36-9					
254	bis(1-mercaptopropyl)sulfide	53897-60-2		4297			
255	bis(2-methylbutyl) disulfide		2861				
256	bis(2-methyl-3-furyl) tetrasulfide	28588-76-3		3260			
257	bis(2-methyl-3-furyl) disulfide	28588-75-2	246	3259			
258	bis(2-methylphenyl) disulfide	4032-80-8	679	4576			
259	3,5-bis(2-methyltetrahydrofuryl-3)spiro-1,2,4-trithiolane		247				
260	bis(3-oxobutyl) sulfide	40790-04-3		3335			

調査 NO	使用品目	参考CAS	SEQ	FEMA	使用量 (kg)	含量 (%)	備考
261	borneol	507-70-0	251	2157			
262	d-borneol	464-43-7		2157			
263	bornyl acetate	76-49-3	252	2159			
264	l-bornyl acetate	5655-61-8	252	4080			
265	bornyl butyrate	13109-70-1	253	3907			
266	bornyl formate	7492-41-3	254	2161			
267	bornyl salicylate	560-88-3					
268	bornyl isovalerate	76-50-6	255	2165			
269	bornyl propionate	20279-25-8	256				
270	bornyl valerate	7549-41-9	257	2164			
271	beta-bourbonene	5208-59-3	258				
272	butanal	123-72-8		2219			
273	butanal amyl ethyl acetal						
274	butanal dibenzyl thioacetal	101780-73-8	328	4589			
275	butanal diethyl acetal	3658-95-5	259				
276	butanal dimethyl acetal		329				
277	butanal ethyl isoamyl acetal						
278	butanal glyceryl acetal butyric acid ester						
279	butanal propyleneglycol acetal	4352-99-2	1754				
280	2,3-butanediol diacetate	1114-92-7	260				
281	diacetyl	431-03-8	533	2370			
282	1,2-butanedithiol	16128-68-0		3528			
283	1,3-butanedithiol	24330-52-7		3529			
284	1,4-butanedithiol	1191-08-8	2870				
285	2,3-butanedithiol	4532-64-3	261	3477			
286	2-butanethiol	513-53-1	263				
287	butanethiol	109-79-5	262	3478			
288	butanol	71-36-3		2178			
289	2-butanone	78-93-3	1648	2170			

調査 NO	使用品目	参考CAS	SEQ	FEMA	使用量 (kg)	含量 (%)	備考
290	2-butanone propyleneglycol acetal	2916-28-1	852				
291	2-butenal diethyl acetal	10602-34-3	2543				
292	trans-2-butenal glyceryl acetal butyric acid ester						
293	2-butenic acid	3724-65-0	430				
294	trans-2-butenic acid	107-93-7	430	3908			
295	2-buten-4-olide	497-23-4	2908	4138			
296	3-buten-2-one	78-94-4	1729				
297	3-butenyl isothiocyanate	3386-97-8	264	4418			
298	1-butenyl methyl sulfide	32951-19-2		3820			
299	4-(2-butenylidene)-3,5,5-trimethyl-2-cyclohexenone	13215-88-8	1497	4663			
300	4-butoxybenzaldehyde	5736-88-9	265				
301	2-butoxyethanol	111-76-2	319				
302	2-butoxyethyl acetate	112-07-2	320				
303	2-butoxyethyl salicylate						
304	4-(butoxymethyl)-2-methoxyphenol	82654-98-6	2495	3796			
305	butter acids	91745-88-9		2171			
306	butter esters	97926-23-3		2172			
307	sec-butyl acetate	105-46-4	273				
308	butyl acetate	123-86-4	274	2174			
309	butyl acetoacetate	591-60-6	275	2176			
310	butyl 2-(acetylthio)propionate		2607				
311	butyl anthranilate	7756-96-9	277	2181			
312	butyl benzoate	136-60-7	278				
313	butyl 2-butenate	7299-91-4	283				
314	butyl trans-2-butenate	591-63-9	266				
315	sec-butyl butyrate	819-97-6					
316	butyl butyrate	109-21-7	279	2186			
317	butyl butyrylacetate		281				
318	butyl butyryllactate	7492-70-8	280	2190			

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319	butyl 2-(butyrylthio)propionate		2608				
320	butyl cinnamate	538-65-8	282	2192			
321	butyl 2,4-decadienoate						
322	butyl decanoate	30673-36-0	284				
323	butyl 2-decenoate	7492-45-7	267	2194			
324	butyl 5-decenoate		2614				
325	butyl cis-5-decenoate		2614				
326	butyl 4-tert-butylphenylacetate		2616				
327	butyl pivalate	5129-37-3	307				
328	butyl ethyl disulfide	63986-03-8		4027			
329	sec-butyl ethyl ether	2679-87-0	285	3131			
330	butyl ethyl malonate	17373-84-1		2195			
331	butyl ethyl sulfide	638-46-0					
332	butyl 3-ethylheptanoate		2613				
333	sec-butyl formate	589-40-2					
334	butyl formate	592-84-7	286	2196			
335	butyl 2-furoate	583-33-5					
336	butyl heptanoate	5454-28-4	287	2199			
337	butyl sorbate	7367-78-4	311				
338	sec-butyl hexanoate	820-00-8					
339	butyl hexanoate	626-82-4	288	2201			
340	butyl 2-hexenoate	13416-74-5	268				
341	butyl trans-2-hexenoate		268				
342	butyl 3-hexenoate		270				
343	butyl vanillate	5348-74-3	2617				
344	butyl salicylate	2052-14-4	310	3650			
345	butyl 4-hydroxybenzoate	94-26-8	306	2203			
346	butyl 2-(isobutyrylthio)propionate		2609				
347	sec-butyl isothiocyanate	4426-79-3	291	4419			

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348	butyl isothiocyanate	592-82-5	290	4082			
349	sec-butyl lactate	18449-60-0					
350	butyl lactate	138-22-7	293	2205			
351	butyl laurate	106-18-3	294	2206			
352	butyl 2-mercaptopropionate		2611				
353	butyl methyl disulfide	60779-24-0					
354	butyl methyl sulfide	628-29-5	1635				
355	butyl 4-methylbenzoate	19277-56-6					
356	S-sec-butyl 3-methylbutanethioate	2432-91-9	271				
357	sec-butyl tiglate						
358	butyl angelate	7785-64-0	276				
359	butyl tiglate	7785-66-2	313				
360	butyl 2-methylbutyrate	15706-73-7	269	3393			
361	butyl isovalerate	109-19-3	292	2218			
362	butyl 2-methylpentanoate	6297-41-2	2612				
363	butyl beta-methyl-beta-phenylglycidate		299				
364	butyl methacrylate	97-88-1	296				
365	butyl isobutyrate	97-87-0	289	2188			
366	butyl 3-(methylthio)acrylate	77105-53-4		4571			
367	butyl 3-(methylthio)propionate		272				
368	butyl myristate	110-36-1	300				
369	butyl 2-naphthyl ether	10484-56-7	1914	4634			
370	butyl nonanoate	50623-57-9	301				
371	butyl octanoate	589-75-3	302				
372	butyl 2-octenoate	57403-32-4					
373	butyl 5-octenoate		2615				
374	butyl cis-5-octenoate		2615				
375	butyl oleate	142-77-8	303				
376	butyl levulinate	2052-15-5	295	2207			

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377	butyl palmitate	111-06-8	304				
378	butyl phenylacetate	122-43-0	305	2209			
379	butyl propionate	590-01-2	308	2211			
380	butyl 2-(propionylthio)propionate		2610				
381	butyl propyl disulfide	72437-64-0	309	4577			
382	butyl stearate	123-95-5	312	2214			
383	butyl undecanoate		314				
384	butyl 10-undecenoate	109-42-2	315	2216			
385	butyl undecenoate						
386	butyl valerate	591-68-4	316	2217			
387	Butylamine	109-73-9		3130			
388	2-ethylidenehexanal	25409-08-9	2828	3392			
389	alpha-butylcinnamaldehyde	7492-44-6	321	2191			
390	2-butyl-4,5-dimethylthiazole	76572-48-0	318				
391	2-sec-butyl-4,5-dimethyl-3-thiazoline	65894-82-8	2843	3619			
392	(5or6)-butyl-1,4-dioxan-2-one	65504-95-2		2204			
393	2-butyl-5-ethylthiophene	54411-06-2					
394	2-butylfuran	4466-24-4	323	4081			
395	3-butylidenephthalide	551-08-6	325	3333			
396	2-sec-butyl-3-methoxypyrazine	24168-70-5	317	3433			
397	2-butyl-4-methyl(4H)pyrrolidino[1,2-d]- 1,3,5-dithiazine	132344-97-9					
398	2-butyl-4-methylthiazole						
399	4-butyl-4-octanolide	7774-47-2	2912	2372			
400	3-butylphthalide	6066-49-5		3334			
401	2-butyltetrahydrofuran	1004-29-1					
402	2-butylthiazole	37645-61-7					
403	4-butylthiazole						
404	2-butylthiophene	1455-20-5	327				
405	3-butylthiophene						

調査 NO	使用品目	参考CAS	SEQ	FEMA	使用量 (kg)	含量 (%)	備考
406	butyric acid	107-92-6	330	2221			
407	gamma-butyrolactone	96-48-0	331	3291			
408	2-butyrylfuran	4208-57-5		4083			
409	2-butyrylthiophene	5333-83-5					
410	cadinene	29350-73-0					
411	delta-cadinene		333				
412	camphene	79-92-5	334	2229			
413	camphenilyl alcohol	18410-94-1					
414	alpha-campholene acetate	1727-68-0	2603	3657			
415	campholenic aldehyde	91819-58-8	335	3592			
416	alpha-campholenol	1901-38-8	336	3741			
417	camphor	76-22-2	339	4513			
418	d-camphor	464-49-3	337	2230			
419	(+)-3-carene	498-15-7	340	3821			
420	3-carene	13466-78-9	340	3821			
421	carveol	99-48-9	343	2247			
422	d-carveol	99-48-9	343	2247			
423	l-carveol	99-48-9	342	2247			
424	carvone	99-49-0	346	2249			
425	d-carvone	2244-16-8	344	2249			
426	l-carvone	6485-40-1	345	2249			
427	carvone oxide	33204-74-9					
428	l-carvone oxide						
429	carvyl acetate	97-42-7	350	2250			
430	cis-carvyl acetate	1205-42-1	349	2250			
431	d-carvyl acetate	97-42-7	350	2250			
432	d-trans-carvyl acetate	97-42-7	350	2250			
433	l-carvyl acetate	97-42-7	350	2250			
434	carvyl acetate oxide						

調査 NO	使用品目	参考CAS	SEQ	FEMA	使用量 (kg)	含量 (%)	備考
435	carvyl butyrate	93919-04-1	351				
436	l-carvyl butyrate		351				
437	carvyl decanoate						
438	carvyl formate	29239-07-4	352				
439	carvyl hexanoate		353				
440	carvyl 2-methylbutyrate		348				
441	carvyl isovalerate	94386-39-7	355				
442	carvyl isobutyrate		354				
443	l-carvyl isobutyrate		354				
444	carvyl octanoate		2618				
445	carvyl oleate						
446	carvyl palmitate	929222-96-8		4515			
447	carvyl propionate	97-45-0	356	2251			
448	l-carvyl propionate	97-45-0	356	2251			
449	carvyl stearate						
450	carvyl valerate		357				
451	1-caryolanol						
452	alpha-humulene	6753-98-6	358				
453	beta-caryophyllene	87-44-5	359	2252			
454	beta-caryophyllene acetate	57082-24-3	360				
455	beta-caryophyllene alcohol	472-97-9	361	4410			
456	caryophyllene alcohol	56747-96-7		4410			
457	beta-caryophyllene oxide	1139-30-6	362	4085			
458	cedar acetate	125783-65-5					
459	2-cedrene						
460	8(14)-cedrene						
461	alpha-cedrene	469-61-4	365				
462	cedrene	11028-42-5					
463	2-cedren-15-ol		366				