

参 考 资 料

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The Prevention of Food Adulteration Act & Rules (as on 1.10.2004)

<http://fssai.gov.in/Portals/0/Pdf/pfa%20acts%20and%20rules.pdf>

FSSAI(FSSAI/ FOOD SAFETY and STANDARD ACT 2006 No34 of 2006

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Food Safety and Standard Authority of INDIA

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**The Prevention of
Food Adulteration Act & Rules
(as on 1.10.2004)**

⁶Provided also that diacetyl tartaric acid, esters of mono and diglycerides may be used in bread and cakes.

⁷**[61-A Use of starch phosphate :-** Starch phosphate, a gum arabic substitute, may be used in syrup, ice-cream powder, salad dressing and pudding to a maximum extent of 0.5 per cent.]

⁸. ⁷**61-AA Use of modified starches-**Modified food starches (derivative starches) may be used in baked foods, confectionery, snacks, flavours, dairy products (where use of emulsifier/stabiliser is allowed in Appendix 'B' to the Prevention of Food Adulteration Rules, 1955) glazes, icings, gravies, sauces, soups, coatings upto a maximum concentration of 0.5 percent by weight".

61-B. Use of emulsifying and stabilising agents in flavouring agents :- The emulsifying and stabilising agents may be added to flavouring agents.

¹**[61-C. Use of emulsifying and stabilising agents in fruit products:-** The following emulsifying and stabilising agents may be added to fruit products:

1. Pectin
2. Sodium alginate
3. Calcium alginate
4. Alginic acid
5. Propylene glycol alginate]

⁴**[61-D)- Use of emulsifying and stabilising agents in Frozen desserts :-** The emulsifying and stabilising agents enlisted under rule 60 may be added to Frozen desserts.

⁵. ⁵**[61-E Use of Xanthan gum -** Xanthan gum may be used in food articles upto a maximum extend of 0.5 per cent by weight (omitted w.e.f. 25.12.2004)

²**[62. Restriction on use of anticaking agents :** No anticaking agents shall be used in any food except where the use of anticaking agents is specifically permitted.]

³[Provided that table salt, onion powder, garlic powder, fruit powder and soup powder may contain the following anticaking agents in quantities not exceeding 2.0 per cent, either singly or in combination, namely :-

1. Subs. by Noti. No. GSR 249 (E), dated 8.3.1983.
2. Ins. by Noti. No. GSR 55(E), dated 31.1.1979.
3. Subs. by Noti. No. GSR 764 (E), dated 15.11.1984.
4. Ins. by Noti. no. GSR 121(E) dated 11.3.1996.
5. See Noti.No. GSR 177 (E) dated 6.4.98.
6. Ins. by Noti. No. GSR 284 (E) dated 29.5.1977 2 & 5 49 (E) dt. 7-.9.1997.
7. Amended GSR 396 (E) dt 27-5-1999
8. Deleting GSR 853 (E) 30.12.2002 (w.e.f. 1.10.2003)
9. Omitted GSR 388(E) dated 25.6.2004 (w.e.f. 25.12.2004)

- (1) Carbonates of calcium and magnesium;
- (2) phosphate of calcium and magnesium;
- (3) silicates of calcium, magnesium, aluminium or sodium or silicon dioxide;
- (4) myristates, palmitates or stearates of aluminium, ammonium, calcium, potassium or sodium.]

¹ Provided further that calcium, potassium or sodium ferrocyanide may be used as crystal modifiers and anti-caking agent in common salt, iodised salt and iron fortified salt in quantity not exceeding 10 mg/ kg singly or in combination expressed as ferrocyanide."

²**[62-A. Antifoaming agents in edible oils and fats :-** Dimethyl Polysiloxane, food grade, may be used as an antifoaming agent in edible oils and fats for deep fat frying upto a maximum limit of 10 parts per million.]

⁶Provided that mono and diglycerides of fatty acids of edible oil may be used as antifoaming agent in jam, jellies and marmalade

Explanation : For the purpose of this rule, "Antifoaming agent" means substance which retards deteriorative change and foaming height during heating."

³**[62-B. Use of release agents in confectionery :-** Spreadasil silicon spray (Dimethyl Polysiloxane) if used as release agent in confectionery shall not exceed 10 p.p.m of the finished product.

⁴**[5 PART XIII- FLAVOURING AGENTS AND RELATED SUBSTANCES]**

²**[63. Flavouring agents :-** Flavouring agents include flavour substances, flavour extracts or flavour preparations, which are capable of imparting flavouring properties, namely taste or odour or both to food. Flavouring agents may be of following three types:-

1. Ins. by Noti. No. GSR 729 (E) dated 23.8.1990.
2. Subs. by Noti. No. GSR 283 (E), dated 26.3. 1983 & GSR 743 dated 23.9.1983.
3. Subs. by Noti. No. GSR 454 (E), dated 15.4.1988.
4. Added by Noti. No. GSR 1211, dated 9.12.1958.
5. Subs. by Noti. No. GSR 764 (E), dated 15.11.1984.
6. Amended GSR 853 (E), dated 30.12.2002

⁶(A) **Natural Flavours and Natural Flavouring Substances:-** "Natural Flavours" and "Natural Flavouring Substances" are flavour preparations and single substance respectively, acceptable for human consumption, obtained exclusively by physical processes from vegetable for human consumption.

(B) **Nature-Identical Flavouring Substances :-**

Nature-identical flavouring substances are substances chemically isolated from aromatic raw materials or obtained synthetically; they are chemically identical to substances present in natural products intended for human consumption, either processed or not.

(C) **Artificial Flavouring Substances :-**

Artificial Flavouring substances are those substances which have not been identified in natural products intended for human consumption either processed or not.]

^{1,2}[**63-A. Restriction on use of flavouring agents :-** The use of the following flavouring agents are prohibited in any article of food, namely:

1. Coumarin and dihydrocoumarin;
2. Tonkabean (Dipteryl Odorat); and
3. β asarone and cinamyl anthracilate
- ³[4. Estragole
5. Ethyl Methyl Ketone
6. Ethyl-3-Phenylglycidate
7. Eugenyl methyl ether
8. Methyl β naphthyl Ketone
9. P-Propyl anisole
10. Saffrole and Isosaffrole
11. Thujone and Isothujone α & β thujone")

⁴[**64 Solvent in flavour : Diethylene Glycol Monoethyl ether shall not be used as solvent in flavours.]**

1. Subs. by Noti. No. GSR 283 (E), dated 26.3.1983.
2. Subs. by Noti. No. GSR 454 (E) dated 15.4.1988.
3. Ins. by Noti. No. GSR 677 (E) dated 6.9.1994.
4. Subs. by Noti. No. GSR 764 (E), dated 15.11.1984.

64-A. Use of anti-oxidants, emulsifying and stabilising agents and food preservatives in flavour :- The flavouring agents may contain permitted anti-oxidants, emulsifying and stabilising agents and food preservatives.

⁶**64-B. Use of Monosodium Glutamate :-** Monosodium Glutamate may be added to foods as per the provisions contained in Appendix C, subject to Good Manufacturing Practices (GMP) level and under proper label declaration as provided in rule 42(S). It shall not be added to any food for use by infant below twelve months and in the following foods:

(List of foods where Mono Sodium Glutamate is not allowed)

1. Milk and Milk Products including Buttermilk.
2. Fermented and renneted milk products (plain) excluding dairy based drink.
3. Pasteurized cream
4. Sterilised, UHT, whipping or whipped and reduced fat creams.
5. Fats and Oils, Foodgrains, Pulses, Oil seeds and groundned/powdered foodgrains.
6. Butter and concentrated butter.
7. Fresh fruit.
8. Surface treated fruit.
9. Peeled or cut fruit.
10. Fresh vegetables, Surface treated fruit, Peeled or cut fruits.
11. Frozen vegetables.
12. Whole, broken or flaked, grains, including rice.
13. Flours of cereals, pulses and starches.
14. Pastas and noodles (only dried products)
15. Fresh meat, poultry and game, whole pieces or cuts or comminuted.
16. Fresh fish and fish products, including mollusks, crustaceans and echinoderms.
17. Processed fish and fish products, including mollusks, crustaceans and echinoderms.
18. Fresh eggs, Liquid egg products, Frozen egg products.
19. White and semi-white sugar (sucrose and sccharose, fructose, glucose (dextrose), xylose, sugar solutions and syrups, also (partially) inverted

1. Amended GSR 388(E) dated 25.6.2004 (w.c.f. 25.12.2004)

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Food Act No.7 of 1996

<http://faolex.fao.org/docs/pdf/ins9666.pdf>

The National Agency of Drug and Food Control

<http://www.pom.go.id/>

Standar Nasional Indonesia 01-7152-2006

http://pustan.bpkimi.kemenperin.go.id/files/SNI_01-7152-2006.pdf

保健大臣規定 No.722/Menkes/Per/IX/88 CLASS X

CLASS X FLAVOUR, FLAVOUR ENHANCER

A. FLAVOUR

NO. I N S	ADDITIVE	PERMITTED IN OR UPON	MAXIMUM LEVEL OF USE
1. -	Allyl Caproate		G M P
2. -	Allyl -3- Cyclohexyl Propionate		G M P
3. -	Allyl Iso Thio-cyanate		G M P
4. -	Alpha-Amyl Cinnamaldehyde		G M P
5. -	Anisaldehyde		G M P
6. -	Benzaldehyde		G M P
7. -	Benzyl Acetate		G M P
8. -	Benzyl Alcohol		G M P
9. -	Benzyl Propionate		G M P
10. -	Borneol (D-)		G M P
11. -	Butyl Acetate		G M P
12. -	Butyl Butyrate		G M P
13. -	Butyric Acid		G M P
14. -	Caproic Acid		G M P

15.	-	Cinnamic Acid	G M P
16.	-	Cinnamic Aldehyde	G M P
17.	-	Cinnamyl Acetate	G M P
18.	-	Cinnamyl Alcohol	G M P
19.	-	Citral	G M P
20.	-	Citronellal	G M P
21.	-	Citronellol	G M P
22.	-	Citronellyl Acetate	G M P
23.	-	Citronellyl Formate	G M P
24.	-	Cyclohexyl Acetate	G M P
25.	-	Cyclohexyl Butyrate	G M P
26.	-	Decyl Alcohol	G M P
27.	-	Decyl Aldehyde	G M P
28.	-	Ethyl Butyrate	G M P
29.	-	Ethyl Caproate	G M P
30.	-	Ethyl Caprylate	G M P
31.	-	Ethyl Cinnamate	G M P
32.	-	Ethyl Heptanoate	G M P

33.	-	Ethyl Isovalerate		G M P
34.	-	Ethyl Lactate		G M P
35.	-	Ethyl Laurate		G M P
36.	637	Ethyl Maltol		G M P
37.	-	Ethyl Nonanoate		G M P
38.	-	Ethyl Phenylacetate		G M P
39.	-	Ethyl Propionate		G M P
40.	-	Ethyl Vanillin	Canned Baby Foods; Processed Cereal Based Foods for Infants and Children	70 mg/kg of the ready to eat product.
41.	-	Eucalyptol		G M P
42.	-	Eugenol		G M P
43.	-	Geraniol		G M P
44.	-	Geranyl Acetate		G M P
45.	-	Geranyl Formate		G M P
46.	-	Hydroxycitronellal		G M P
47.	-	Hydroxycitronellal Dimethylacetal		G M P
48.	-	Isoamyl Acetate		G M P

49.	-	Isoamyl Butyrate	G M P
50.	-	Isoamyl Isovalerate	G M P
51.	-	Isoamyl Phenylacetate	G M P
52.	-	Isoamyl Propionate	G M P
53.	-	Isobutyl Phenylacetate	G M P
54.	-	Isoeugenol	G M P
55.	-	Linalol	G M P
56.	-	Linalyl Acetate	G M P
57.	636	Maltol	G M P
58.	-	Menthol (DL-)	G M P
59.	-	Menthol (L-)	G M P
60.	-	Menthyl Acetate (L-)	G M P
61.	-	Methyl Anthranilate	G M P
62.	-	Methyl Beta-Naphthyl Ketone	G M P
63.	-	Methyl Cinnamate	G M P
64.	-	Methyl-N-Methyl Anthranilate	G M P
65.	-	Methyl Salicylate	G M P
66.	-	Nonalactone	G M P

67.	-	Nonanal	G M P
68.	-	Octyl Aldehyde	G M P
69.	-	Para Methyl Acetophenone	G M P
70.	-	Perilaldehyde (L-)	G M P
71.	-	Piperonal	G M P
72.	-	Terpineol	G M P
73.	-	Terpinyl Acetate	G M P
74.	-	Undecalactone	G M P
75.	-	Vanillin	G M P

B. FLAVOUR ENHANCER

NO. I N S	ADDITIVE	PERMITTED IN OR UPON	MAXIMUM LEVEL OF USE
1. 634	Calcium 5' Ribonucleotide		G M P
2. 635	Disodium 5' Ribonucleotide		G M P
3. 620	Glutamic Acid (L-) (and calcium salt, monopotassium salt and sodium salt)		G M P
4. 626	Guanylic Acid (potassium salt, and sodium salt)		G M P
5. 630	Inosinic Acid (potassium salt and sodium salt)		G M P

Standar Nasional Indonesia 01-7152-2006 抜粋

表 1～17 生理活性があり使用が制限されている物質

aloin, asam agarat, asam sianida, beta asaron, berberin, estragol, hiperisin, kafein, kuasin, komarin, kuinin, minyak rue, safrol, iso-safrol, alfa santonin, spartein, tujon

表 18 食品中に使用が禁止されている物質

Dulkamara, Kokain, Nitrobenzen, Sinamil antranilat, Dihidrosafrol, Biji tonka, Minyak kalamus, Minyak tansi, Minyak sasafras

Standar Nasional Indonesia

SNI 01-7152-2006

Table A-1

No.	Name	JECFA	EC	FEMA
1	allyl propionate	1	09.233	2040
2	allyl butyrate	2	09.054	2021
3	allyl hexanoate	3	09.244	2032
4	allyl heptanoate	4	09.097	2031
5	allyl octanoate	5	09.119	2037
6	allyl nonanoate	6	09.109	2036
7	allyl isovalerate	7	09.489	2045
8	allyl sorbate	8	09.312	2041
9	allyl 10-undecenoate	9	09.146	2044
10	allyl tiglate	10	09.493	2043
11	allyl 2-ethylbutyrate	11	09.410	2029
12	allyl cyclohexaneacetate	12	09.482	2023
13	allyl cyclohexanepropionate	13	09.498	2026
14	allyl cyclohexanebutyrate	14	09.411	2024
15	allyl cyclohexanevalerate	15	09.469	2027
16	allyl cyclohexanehexanoate	16	09.492	2025
17	allyl phenylacetate	17	09.790	2039
18	allyl phenoxyacetate	18	09.701	2038
19	allyl cinnamate	19	09.741	2022
20	allyl anthranilate	20	09.719	2020
21	allyl 2-furoate	21	13.004	2030
22	benzaldehyde	22	05.013	2127
23	benzyl acetate	23	09.014	2135
24	benzyl benzoate	24	09.727	2138
25	benzyl alcohol	25	02.010	2137
26	ethyl formate	26	09.072	2434
27	ethyl acetate	27	09.001	2414
28	ethyl propionate	28	09.121	2456
29	ethyl butyrate	29	09.038	2693
30	ethyl pentanoate	30	09.147	2462
31	ethyl hexanoate	31	09.060	2439
32	ethyl heptanoate	32	09.093	2437
33	ethyl octanoate	33	09.111	2449
34	ethyl nonanoate	34	09.107	2447
35	ethyl decanoate	35	09.059	2432
36	ethyl undecanoate	36	09.274	3492
37	ethyl dodecanoate	37	09.099	2441
38	ethyl tetradecanoate	38	09.104	2445
39	ethyl hexadecanoate	39	09.180	2451
40	ethyl octadecanoate	40	09.210	3490
41	ethanol	41	02.078	2419
42	isoamyl formate (3-Methylbutyl formate)	42	09.162	2069
43	isoamyl acetate (isopentyl acetate)	43	09.024	2055
44	isoamyl propionate 3-Methylbutyl propionate	44	09.136	2082
45	isoamyl butyrate 3-Methylbutyl butyrate	45	09.055	2060
46	isoamyl hexanoate 3-Methylbutyl hexanoate	46	09.070	2075
47	isoamyl octanoate 3-Methylbutyl octanoate	47	09.120	2080
48	isoamyl nonanoate	48	09.110	2078
49	isoamyl isobutyrate Isopentyl isobutyrate	49	09.419	3507
50	isoamyl isovalerate 3-Methylbutyl 3-methylbutyrate	50	09.463	2085
51	isoamyl 2-methylbutyrate Isopentyl 2-methylbutyrate	51	09.530	3505
52	isoamyl alcohol Isopentanol	52	02.003	2057

53	citronellyl formate	53	09.078	2314
54	geranyl formate	54	09.076	2514
55	neryl formate	55	09.212	2776
56	rhodinyl formate	56	09.079	2984
57	citronellyl acetate	57	09.012	2311
58	geranyl acetate	58	09.011	2509
59	neryl acetate	59	09.213	2773
60	rhodinyl acetate	60	09.033	2981
61	citronellyl propionate	61	09.129	2316
62	geranyl propionate	62	09.128	2517
63	neryl propionate	63	09.169	2777
64	rhodinyl propionate	64	09.141	2986
65	citronellyl butyrate	65	09.049	2312
66	geranyl butyrate	66	09.048	2512
67	neryl butyrate (EU name)	67	09.048	2512
68	rhodinyl butyrate	68	09.927	2982
69	citronellyl valerate	69	09.151	2317
70	geranyl hexanoate	70	09.067	2515
71	citronellyl isobutyrate	71	09.421	2313
72	geranyl isobutyrate	72	09.431	2513
73	neryl isobutyrate	73	09.424	2775
74	rhodinyl isobutyrate	74	-	2983
75	geranyl isovalerate	75	09.453	2518
76	neryl isovalerate	76	09.471	2778
77	rhodinyl isovalerate	77	09.465	2987
78	3,7-dimethyl-2,6-octadien-1-yl 2-ethylbutanoate Geranyl 2-ethylbutyrate	78	09.515	3339
79	formic acid	79	08.001	2487
80	acetaldehyde	80	05.001	2003
81	acetic acid	81	08.002	2006
82	propyl alcohol (Propan-1-ol)	82	02.002	2928
83	Propionaldehyde (Propanal)	83	05.002	2923
84	propionic acid	84	08.003	2924
85	butyl alcohol (butan-1-ol)	85	02.004	2178
86	Butyraldehyde (butanal)	86	05.003	2219
87	butyric acid	87	08.005	2221
88	amyl alcohol (pentan-1-ol)	88	02.040	2056
89	Valeraldehyde (Pentanal)	89	05.005	3098
90	valeric acid	90	08.007	3101
91	hexyl alcohol	91	02.005	2567
92	hexanal	92	05.008	2557
93	hexanoic acid	93	08.009	2559
94	heptyl alcohol	94	02.021	2548
95	heptanal	95	05.031	2540
96	heptanoic acid	96	08.028	3348
97	1-octanol	97	02.006	2800
98	octanal	98	05.009	2797
99	octanoic acid	99	08.010	2799
100	nonyl alcohol	100	02.007	2789
101	nonanal	101	05.025	2782
102	nonanoic acid	102	08.029	2784
103	1-decanol	103	02.024	2365
104	decanal	104	05.010	2362
105	decanoic acid	105	08.011	2364
106	undecyl alcohol	106	02.057	3097
107	undecanal	107	05.034	3092
108	undecanoic acid	108	08.042	3245

109	lauryl alcohol (dodecan-1-ol)	109	02.008	2617
110	lauric aldehyde (dodecanal)	110	05.011	2615
111	lauric acid (dodecanoic acid)	111	08.012	2614
112	Myristaldehyde (myristaldehyde)	112	05.032	2763
113	myristic acid (tetradecanoic acid)	113	08.016	2764
114	1-hexadecanol	114	02.009	2554
115	palmitic acid (hexadecanoic acid)	115	08.014	2832
116	stearic acid (octadecanoic acid)	116	08.015	3035
117	propyl formate	117	09.073	2943
118	butyl formate	118	09.163	2196
119	n-amyl formate (pentyl formate)	119	09.159	2068
120	hexyl formate	120	09.161	2570
121	heptyl formate	121	09.074	2552
122	octyl formate	122	09.075	2809
123	cis-3-hexenyl formate	123	09.846	3353
124	isobutyl formate	124	09.164	2197
125	methyl acetate	125	09.023	2676
126	propyl acetate	126	09.002	2925
127	butyl acetate	127	09.004	2174
128	hexyl acetate	128	09.006	2565
129	heptyl acetate	129	09.022	2547
130	octyl acetate	130	09.007	2806
131	nonyl acetate	131	09.008	2788
132	decyl acetate	132	09.009	2367
133	lauryl acetate	133	09.010	2616
134	cis-3-hexenyl acetate	134	09.197	3171
135	trans-3-heptenyl acetate	135	09.275	3493
136	10-undecen-1-yl acetate	136	09.214	3096
137	isobutyl acetate	137	09.005	2175
138	2-methylbutyl acetate	138	09.286	3644
139	acetone	139	07.050	3326
140	2-ethylbutyl acetate	140	09.025	2425
141	methyl propionate	141	09.134	2742
142	propyl propionate	142	09.122	2958
143	butyl propionate	143	09.124	2211
144	hexyl propionate	144	09.139	2576
145	octyl propionate	145	09.126	2813
146	decyl propionate	146	09.127	2369
147	cis-3- and trans-2-hexenyl propionate	147	-	3778
148	isobutyl propionate	148	09.125	2212
149	methyl butyrate	149	09.038	2693
150	propyl butyrate	150	09.040	2934
151	butyl butyrate	151	09.042	2186
152	n-amyl butyrate	152	09.044	2059
153	hexyl butyrate	153	09.045	2568
154	heptyl butyrate	154	09.166	2549
155	octyl butyrate	155	09.046	2807
156	decyl butyrate	156	09.047	2368
157	cis-3-hexenyl butyrate	157	09.270	3402
158	isobutyl butyrate	158	09.043	2187
159	methyl valerate	159	09.182	2752
160	butyl valerate	160	09.148	2217
161	propyl hexanoate	161	09.061	2949
162	butyl hexanoate	162	09.063	2201
163	n-amyl hexanoate	163	09.065	2074
164	hexyl hexanoate	164	09.066	2572
165	cis-3-hexenyl hexanoate	165	09.271	3403

166	isobutyl hexanoate	166	09.064	2202
167	methyl heptanoate	167	09.096	2705
168	propyl heptanoate	168	09.095	2948
169	butyl heptanoate	169	09.091	2199
170	n-amyl heptanoate	170	09.098	2073
171	octyl heptanoate	171	09.094	2810
172	isobutyl heptanoate	172	09.092	2200
173	methyl octanoate	173	09.117	2728
174	n-amyl octanoate	174	09.112	2079
175	hexyl octanoate	175	09.113	2575
176	heptyl octanoate	176	09.118	2553
177	octyl octanoate	177	09.114	2811
178	nonyl octanoate	178	09.115	2790
179	methyl nonanoate	179	09.108	2724
180	methyl laurate	180	09.101	2715
181	butyl laurate	181	09.100	2206
182	isoamyl laurate	182	09.103	2077
183	methyl myristate	183	09.106	2722
184	butyl stearate	184	09.246	2214
185	methyl isobutyrate	185	09.412	2694
186	ethyl isobutyrate	186	09.413	2428
187	propyl isobutyrate	187	09.414	2936
188	butyl isobutyrate	188	09.416	2188
189	hexyl isobutyrate	189	09.478	3172
190	heptyl isobutyrate	190	09.420	2550
191	trans-3-heptenyl 2-methylpropanoate	191	09.528	3494
192	octyl isobutyrate	192	09.473	2808
193	dodecyl isobutyrate	193	09.523	3452
194	isobutyl isobutyrate	194	09.417	2189
195	methyl isovalerate	195	09.462	2753
196	ethyl isovalerate	196	09.447	2463
197	propyl isovalerate	197	09.448	2960
198	butyl isovalerate	198	09.449	2218
199	hexyl 3-methylbutanoate	199	09.529	3500
200	octyl isovalerate	200	09.451	2814
201	nonyl isovalerate	201	09.452	2791
202	3-hexenyl 3-methylbutanoate	202	09.505	3498
203	2-methylpropyl 3-methylbutyrate	203	09.472	3369
204	2-methylbutyl 3-methylbutanoate	204	09.531	3506
205	methyl 2-methylbutyrate	205	09.483	2719
206	ethyl 2-methylbutyrate	206	09.409	2443
207	n-butyl 2-methylbutyrate	207	09.519	3393
208	hexyl 2-methylbutanoate	208	09.507	3499
209	octyl 2-methylbutyrate	209	09.537	3604
210	isopropyl 2-methylbutyrate	210	09.547	3699
211	3-hexenyl 2-methylbutanoate	211	09.854	3497
212	2-methylbutyl 2-methylbutyrate	212	09.516	3359
213	methyl 2-methylpentanoate	213	09.549	3707
214	ethyl 2-methylpentanoate	214	09.526	3488
215	ethyl 3-methylpentanoate	215	09.541	3679
216	methyl 4-methylvalerate	216	09.432	2721
217	trans-anethole	217	04.010	2086
218	citric acid	218	-	2306
219	4-hydroxybutyric acid lactone	219	10.006	3291
220	gamma-valerolactone	220	10.013	3103
221	4-hydroxy-3-pentenoic acid lactone	221	10.012	3293
222	5-ethyl-3-hydroxy-4-methyl-2(5H)-furanone	222	10.023	3153

223	gamma-hexalactone	223	10.021	2556
224	delta-hexalactone	224	10.010	3167
225	gamma-heptalactone	225	10.020	2539
226	gamma-octalactone	226	10.022	2796
227	4,4-dibutyl-gammabutyrolactone	227	10.018	2372
228	delta-octalactone	228	10.015	3214
229	gamma-nonalactone	229	10.001	2781
230	hydroxynonanoic acid deltalactone	230	10.014	3356
231	gamma-decalactone	231	10.017	2360
232	delta-decalactone	232	10.007	2361
233	gamma-undecalactone	233	10.002	3091
234	5-hydroxyundecanoic acid deltalactone	234	10.011	3294
235	gamma-dodecalactone	235	10.019	2400
236	delta-dodecalactone	236	10.008	2401
237	6-hydroxy-3,7-dimethyloctanoic acid lactone	237	10.027	3355
238	delta-tetradecalactone	238	10.016	3590
239	omega-pentadecalactone	239	10.004	2840
240	omega-6-hexadecenlactone	240	10.003	2555
241	epsilon-decalactone	241	10.029	3613
242	epsilon-dodecalactone	242	10.028	3610
243	4,5-dimethyl-3-hydroxy-2,5-dihydrofuran-2-one	243	10.030	3634
244	3-heptyldihydro-5-methyl-2(3H)-furanone	244	10.027	3350
245	5-hydroxy-2,4-decadienoic acid delta-lactone	245	10.031	3696
246	5-hydroxy-2-decenoic acid deltalactone	246	10.037	3744
247	5-hydroxy-7-decenoic acid deltalactone	247	10.033	3745
248	5-hydroxy-8-undecenoic acid delta-lactone	248	10.035	3758
249	cis-4-hydroxy-6-dodecenoic acid lactone	249	10.009	3780
250	gamma-methyldecalactone	250	10.051	3786
251	isobutyl alcohol	251	02.001	2179
252	isobutyraldehyde	252	05.004	2220
253	isobutyric acid	253	08.006	2222
254	2-methylbutyraldehyde	254	05.049	2691
255	2-methylbutyric acid	255	08.046	2695
256	2-ethylbutyraldehyde	256	05.007	2426
257	2-ethylbutyric acid	257	08.045	2429
258	3-methylbutyraldehyde	258	05.006	2692
259	isovaleric acid	259	08.008	3102
260	2-methylpentanal	260	05.069	3413
261	2-methylvaleric acid	261	08.031	2754
262	3-methylpentanoic acid	262	08.056	3437
263	3-methyl-1-pentanol	263	02.115	3762
264	4-methylpentanoic acid	264	08.057	3463
265	2-methylhexanoic acid	265	08.034	3191
266	5-methylhexanoic acid	266	08.061	3572
267	2-ethyl-1-hexanol	267	02.082	3151
268	3,5,5-trimethyl-1-hexanol	268	02.055	3324
269	3,5,5-trimethylhexanal	269	05.116	3524
270	2-methyloctanal	270	05.024	2727
271	4-methyloctanoic acid	271	08.063	3575
272	3,7-dimethyl-1-octanol	272	02.026	2391
273	2,6-dimethyloctanal	273	05.023	2390
274	4-methylnonanoic acid	274	08.062	3574
275	2-methylundecanal	275	05.077	2749
276	5-hydroxy-2-decenoic acid delta-lactone, 5-hydroxy-2-dodecenoic acid delta-lactone and 5-tetradecenoic acid delta-lactone, mixture of	276	-	
277	isopropyl alcohol	277	02.079	2929

278	2-butanone	278	07.053	2170
279	2-pentanone	279	07.054	2842
280	2-pentanol	280	02.088	3316
281	3-hexanone	281	07.096	3290
282	3-hexanol	282	02.089	3351
283	2-heptanone	283	07.002	2544
284	2-heptanol	284	02.045	3288
285	3-heptanone	285	07.003	2545
286	3-heptanol	286	02.044	3547
287	4-heptanone	287	07.058	2546
288	2-octanone	288	07.019	2802
289	2-octanol	289	02.022	2801
290	3-octanone	290	07.062	2803
291	3-octanol	291	02.098	3581
292	2-nonanone	292	07.020	2785
293	2-nonanol	293	02.087	3315
294	3-nonanone	294	07.113	3440
295	3-decanol	295	02.103	3605
296	2-undecanone	296	07.016	3093
297	2-undecanol	297	02.086	3246
298	2-tridecanone	298	07.103	3388
299	2-pentadecanone	299	07.137	3724
300	3-methyl-2-butanol	300	02.111	3703
301	4-methyl-2-pentanone	301	07.017	2731
302	2,6-dimethyl-4-heptanone	302	07.122	3537
303	2,6-dimethyl-4-heptanol	303	02.081	3140
304	isopropyl formate	304	09.165	2944
305	isopropyl acetate	305	09.003	2926
306	isopropyl propionate	306	09.123	2959
307	isopropyl butyrate	307	09.041	2935
308	isopropyl hexanoate	308	09.062	2950
309	isopropyl isobutyrate	309	09.415	2937
310	isopropyl isovalerate	310	09.450	2961
311	isopropyl myristate	311	09.105	3556
312	isopropyl tiglate	312	09.513	3229
313	3-octyl acetate	313	09.254	3583
314	4-pentenoic acid	314	08.048	2843
315	cis-3-hexen-1-ol	315	02.056	2563
316	cis-3-hexenal	316	05.075	2561
317	3-hexenoic acid	317	08.050	3170
318	4-hexen-1-ol	318	02.074	3430
319	cis-4-hexenal	319	05.113	3496
320	cis-4-heptenal	320	05.085	3289
321	cis-3-octen-1-ol	321	02.094	3467
322	cis-5-octen-1-ol	322	02.113	3722
323	cis-5-octenal	323	05.128	3749
324	cis-6-nonen-1-ol	324	02.093	3465
325	cis-6-nonenal	325	05.059	3580
326	4-decenal	326	05.096	3264
327	5- and 6-decenoic acid (mixture)	327	08.068	3742
328	9-decenoic acid	328	08.065	3660
329	9-undecenal	329	05.036	3094
330	10-undecenal	330	05.035	3095
331	10-undecenoic acid	331	08.039	3247
332	linoleic and linolenic acid (mixture)	332	08.041	0332
333	oleic acid	333	08.013	2815
334	methyl 3-hexenoate	334	09.267	3364