Index of IFRA Standards – 43rd Amendment

The IFRA recommendations are grouped into three categories as follows:

P (prohibited) The material should not be used as a fragrance ingredient.

R (restricted) The use of the material should be limited quantitatively.

S (specified) The material should only be used if it meets certain purity criteria or if it used in conjunction with other materials.

34 Revised or NEW Standards (are indicated in bold)
26 Prohibited Standards from the former Other Material List do now have individual Standard *(are indicated in italic)*

	Substance	CAS	Last Amended	Standard
1	Acetylated Vetiver oil	84082-84-8	02.80	**S**
2	Acetyl ethyl tetramethyl tetralin (AETT, Versalide)	88-29-9	11.77 (05.06) [1]	**P**
3	5-Acetyl-1,1,2,3,3,6-hexamethyl indan (Phantolid)	15323-35-0	10.87 (04.05)	**R**
4	Acetyl isovaleryl (5-Methyl-2,3-hexanedione)	13706-86-0	02.80 (05.06)	**P**
5	Alantroot oil (Elecampane oil)	97676-35-2	06.75 (05.06)	**P**
6	Allyl esters		02.77	**S**
7	*Allyl heptine carbonate*	*73157-43-4*	*(07.08)*	***P***
8	*Allyl isothiocyanate*	*57-06-7*	*(07.08)*	***P***
9	*Amylcyclopentenone*	*25564-22-1*	*(07.08)*	***P***
10	alpha-Amyl cinnamic alcohol	101-85-9	05.07	**R**
11	alpha-Amyl cinnamic aldehyde	122-40-7	05.07	**R**
12	Angelica root oil	8015-64-3	10.78 (04.05)	**R**

[1] The dates in brackets indicate a modification of the Standard that did NOT affect the IFRA recommendations (for instance, an update of the references or a reformatting of the Standard). The dates without brackets refer to a change that affected the IFRA recommendations.

	Substance	CAS	Last Amended	Standard
13	Anisyl alcohol	105-13-5	05.07	**R**
14	Anisylidene acetone (4-(p-methoxyphenyl)-3-butene-2-one)	943-88-4	11.74 (05.06)	**P**
15	cis-and trans-Asarone ((E)-and(Z)-2,4,5-Trimethoxypropen-1-yl benzene)	2883-98-9 5273-86-9	12.91	**P-R**
16	Benzene	71-43-2	04.04	**P**
17	Benzyl Alcohol	100-51-6	05.07	**R**
18	Benzyl Benzoate	120-51-4	05.07	**R**
19	Benzyl Cinnamate	103-41-3	05.07	**R**
20	Benzyl cyanide	140-29-4	04.04	**P**
21	Benzylidene acetone (4-Phenyl-3-buten-2-one)	122-57-6	06.74 (05.06)	**P**
22	Benzyl Salicylate	118-58-1	05.07	**R**
23	Bergamot oil expressed	8007-75-8	06.92	**R**
24	Birch wood pyrolysate	8001-88-5 84012-15-7 85940-29-0 68917-50-0	04.04	**S-P**
25	Bitter orange peel oil expressed	68916-04-1 72968-50-4	07.02	**R**
26	*3-Bromo-1,7,7-trimethylbicyclo[2.2.1]heptane-2-one*	*76-29-9*	*(07.08)*	***P***
27	*Bromostyrene*	*103-64-0*	*(07.08)*	***P***
28	**p-tert-Butyl-dihydrocinnamaldehyde (Bourgeonal)**	**18127-01-0**	**07.08**	**R**
29	**p-tert-Butyl-alpha-methylhydrocinnamic aldehyde (BMHCA)**	**80-54-6**	**07.08**	**R**
30	p-tert-Butylphenol	98-54-4	06.75 (05.06)	**P**
31	Cade oil (Juniperus Oxycedrus L.)	8013-10-3 90046-02-9	04.04	**S-P**

	Substance	CAS	Last Amended	Standard
NEW 32	**Carvone; d-Carvone; l-Carvone**	**99-49-0 2244-16-8 6485-40-1**	**07.08**	**R**
33	Carvone oxide	33204-74-9	04.04	**P**
34	*Chenopodium oil*	*8006-99-3*	*(07.08)*	***P***
35	**Cinnamic alcohol**	**104-54-1**	**07.08**	**R**
36	**Cinnamic aldehyde**	**104-55-2**	**07.08**	**R**
37	*Cinnamylidene acetone*	*4173-44-8*	*(07.08)*	***P***
38	**Cinnamyl nitrile**	**4360-47-8 1885-38-7**	**07.08**	**R**
39	Citral (Lemarome)	5392-40-5	05.06	**R**
40	Citronellol	106-22-9 141-25-3 1117-61-9 26489-01-0 6812-78-8 68916-43-8 7540-51-4	05.07	**R**
41	Citrus oils and other furocoumarins containing essential oils		12.96	**R**
42	Colophony	8050-09-7	12.92 (05.06)	**P**
43	Costus root oil, absolute and concrete		10.79 (05.06)	**P**
NEW 44	**Coumarin**	**91-64-5**	**07.08**	**R**
45	Cumin oil		06.86 (04.05)	**R**
46	Cyclamen alcohol (3-(4-Isopropylphenyl)-2-methylpropanol)	4756-19-8	10.78 (02.80)	**P-S**
47	*1,3-Dibromo-2-methoxy-4-nitro-5-(1,1-dimethylethyl)-6-methyl-benzene (Musk alpha)*	*63697-53-0*	*(07.08)*	***P***
48	*1,3-Dibromo-2-methoxy-4-methyl-5-nitrobenzene (Musk KS)*	*62265-99-0*	*(07.08)*	***P***

	Substance	CAS	Last Amended	Standard
49	*2,2-Dichloro-1-methylcyclopropylbenzene*	*3591-42-2*	*(07.08)*	***P***
50	Diethyl maleate	141-05-9	06.75 (05.06)	**P**
51	Dihydrocoumarin (Melilotine)	119-84-6	10.74 (05.06)	**P**
52	2,4-Dihydroxy-3-methylbenzaldehyde	6248-20-0	02.84 (05.06)	**P**
53	4,6-Dimethyl-8-tert-butylcoumarin (Butolia)	17874-34-9	02.79 (05.06)	**P**
54	3,7-Dimethyl-2-octen-1-ol	40607-48-5	04.04	**P**
NEW 55	**2,2-Dimethyl-3-(3-tolyl)propan-1-ol (Majantol)**	**103694-68-4**	**07/08**	**R**
56	Dimethyl citraconate	617-54-9	10.76 (05.06)	**P**
57	Diphenylamine	122-39-4	04.04	**P**
58	*Esters of 2-octynoic acid, except Methyl Heptine Carbonate which is IFRA Restricted*		*(07.08)*	***P***
59	*Esters of 2-nonynoic acid, except methyl octine carbonate*		*(07.08)*	***P***
NEW 60	**2-Ethoxy-4-methylphenol**	**2563-07-7**	**07.08**	**R**
61	Ethyl acrylate	140-88-5	11.74 (05.06)	**P**
62	Ethylene Glycol Monoethyl Ether and its Acetate	110-80-5 111-15-9 (acetate)	04.04	**P**
63	Ethylene Glycol Monomethyl Ether and its Acetate	109-86-4 110-49-6 (acetate)	04.04	**P**
64	**Eugenol**	**97-53-0**	**07.08**	**R**
65	Farnesol	4602-84-0	05.06	**R-S**
66	Fig leaf absolute	68916-52-9	10.80 (05.06)	**P**

	Substance	CAS	Last Amended	Standard
67	*Furfurylideneacetone*	*623-15-4*	*(07.08)*	***P***
68	*Geraniol*	*106-24-1*	*05.07*	***R***
69	*Geranyl nitrile*	*5146-66-7* *5585-39-7* *31983-27-4*	*(07.08)*	***P***
70	Grapefruit oil expressed	8016-20-4	06.92	**R**
71	trans-2-Heptenal	18829-55-5	02.85 (05.06)	**P**
72	Hexahydrocoumarin	700-82-3	02.80 (05.06)	**P**
73	**trans-2-Hexenal**	**6728-26-3**	**07.08**	**R**
74	trans-2-Hexenal diethyl acetal	67746-30-9	02.85 (05.06)	**P**
75	trans-2-Hexenal dimethyl acetal	18318-83-7	02.85 (05.06)	**P**
76	alpha-Hexyl cinnamic aldehyde	101-86-0	05.07	**R**
77	**alpha-Hexylidene cyclopentanone**	**17373-89-6**	**07.08**	**R**
78	Hexyl salicylate	6259-76-3	05.07	**R**
79	Hydroabietyl alcohol, dihydroabietyl alcohol	13393-93-6 26266-77-3 1333-89-7	04.04	**P**
80	Hydroquinone monoethyl ether (4-ethoxy-Phenol)	622-62-8	02.82 (05.06)	**P**
81	Hydroquinone monomethyl ether (4-methoxy-Phenol)	150-76-5	10.83 (05.06)	**P**
82	**Hydroxycitronellal**	**107-75-5**	**07.08**	**R**
83	**3 and 4-(4-Hydroxy-4-methylpentyl)-3-cyclohexene-1-carboxaldehyde (HMPCC)**	**31906-04-4** **51414-25-6**	**07.08**	**R**
84	Isocyclocitral	1335-66-6 1423-46-7 67634-07-5	05.07	R
85	**Isocyclogeraniol** **(2,4,6-Trimethyl-3-cyclohexene-1-methanol)**	**68527-77-5**	**07.08**	**R**

	Substance	CAS	Last Amended	Standard
86	**Isoeugenol**	**97-54-1**	**07.08**	**R**
87	*Isophorone*	*78-59-1*	*(07.08)*	***P***
88	6-Isopropyl-2-decalol (Decatol)	34131-99-2	06.79 (05.06)	**P**
NEW 89	**Jasmine absolute (grandiflorum)**	**8022-96-6 8024-43-9 90045-94-6 84776-64-7**	**07.08**	**R**
NEW 90	**Jasmine absolute (sambac)**	**91770-14-8**	**07.08**	**R**
91	Lemon oil cold pressed		06.92	**R**
92	Lime oil expressed		06.92	**R**
93	Limonene	138-86-3	12.95	**S**
94	Linalool	78-70-6 126-90-9 126-91-0	04.04	**S**
95	*Massoia bark oil*	*85085-26-3*	*(07.08)*	***P***
96	*Massoia lactone*	*54814-64-1*	*(07.08)*	***P***
97	*Melissa oil (genuine Melissa officinalis)*	*8014-71-9*	*(07.08)*	***P***
98	**p-Mentha-1,8-dien-7-al (Perilla aldehyde)**	**2111-75-3**	**07.08**	**R**
99	**Menthadiene-7-methyl formate (Isobergamate)**	**68683-20-5**	**07.08**	**R**
100	*7-Methoxycoumarin*	*531-59-9*	*(07.08)*	***P***
101	**Methoxy dicylopentadiene carboxaldehyde (Scentenal)**	**86803-90-9**	**07.08**	**R**
102	**2-Methoxy-4-methylphenol (Cresol)**	**93-51-6**	**07.08**	**R**
103	alpha-Methyl anisylidene acetone (1-(4-Methoxyphenyl)-1-penten-3-one)	104-27-8	11.77 (05.06)	**P**
104	alpha-Methyl cinnamic aldehyde	101-39-3	05.07	**R**

	Substance	CAS	Last Amended	Standard
105	6-Methylcoumarin (Toncarine)	92-48-8	10.78 (05.06)	**P**
106	7-Methylcoumarin	2445-83-2	02.79 (05.06)	**P**
107	Methyl crotonate	623-43-8	03.78 (05.06)	**P**
108	4-Methyl-7-ethoxycoumarin (Maraniol)	87-05-8	06.79 (05.06)	**P**
109	Methyl Eugenol	93-15-2	07.02	**R**
110	Methyl heptadienone (6-Methyl-3,5-heptadienone)	1604-28-0	04.89 (04.99)	R
111	**Methyl heptine carbonate (MHC, Folione)**	**111-12-6**	**07.08**	**R**
112	*p-Methylhydrocinnamic aldehyde*	*5406-12-2*	*(07.08)*	***P***
113	**Methyl ionone, mixed isomers**	**1335-46-2** **127-42-4** **127-43-5** **127-51-5** **7779-30-8**	**07.08**	**R**
114	*Methyl methacrylate*	*80-62-6*	*(07.08)*	***P***
115	Methyl N-methylanthranilate (Dimethyl anthranilate)	85-91-6	05.06	**R**
116	Methyl beta-naphtyl ketone	93-08-3	04.05	**R**
117	*3-Methyl-2(3)-nonenenitrile (Citgrenile)*	*53153-66-5*	*(07.08)*	***P***
118	**Methyl octine carbonate (MOC)**	**111-80-8**	**07.08**	**R**
119	*Moskene (1,1,3,3,5-Pentamethyl-4,6-dinitroindane)*	*116-66-5*	*(07.08)*	***P***
120	Musk ambrette	83-66-9	07.94 (05.06)	**P**
121	*Musk tibetene (1-tert-Butyl-2,6-dinitro-3,4,5-trimethylbenzene)*	*145-39-1*	*(07.08)*	***P***

	Substance	CAS	Last Amended	Standard
122	Nitrobenzene	98-95-3	06.74 (05.06)	**P**
123	Nootkatone	4674-50-4	05.06	**S**
124	**Oak moss extracts**	**90028-68-5 9000-50-4 68917-40-8**	**07.08**	**R-S**
NEW 125	**1-(1,2,3,4,5,6,7,8-Octahydro-2,3,8,8-tetramethyl-2-naphthalenyl)ethanone (OTNE)**	**54464-57-2**	**07.08**	**R**
126	**1-Octen-3-yl acetate (Amyl vinyl carbinyl acetate)**	**2442-10-6**	**07.08**	**R**
127	Opoponax		07.94 (04.99)	**R**
128	2-Pentylidene cyclohexanone	25677-40-1	02.79 (05.06)	**P**
129	Peru balsam crude	8007-00-9	12.91 (05.07)	**P**
130	**Peru balsam extracts and distillates**	**8007-00-9**	**07.08**	**R**
131	Petitgrain Mandarin oil	8014-17-3	04.01 (07.02)	**R**
132	Phenylacetaldehyde (Hyacinthin)	122-78-1	05.06	**R**
133	*Phenyl acetone (Methyl benzyl ketone)*	*103-79-7*	*(07.08)*	***P***
134	*Phenyl benzoate*	*93-99-2*	*(07.08)*	***P***
135	Pinacea derivatives		07.94	**S**
136	**3-Propylidene phthalide**	**17369-59-4**	**07.08**	**R**
137	Pseudoionone (2,6-Dimethylundeca-2,6,8-trien-10-one)	141-10-6	07.87 (05.06)	**P-S**
138	Pseudomethylionone (7,11-Dimethyl-4,6,10-dodecatrien-3-one)	26651-96-7	10.79 (05.06)	**P-S**

	Substance	CAS	Last Amended	Standard
139	**Rose ketones**	**57378-68-4** **43052-87-5** **24720-09-0** **23696-85-7** **23726-92-3** **23726-91-2** **23726-94-5** **39872-57-6** **71048-82-3** **33673-71-1** **70266-48-7** **35087-49-1**	**07.08**	**R**
140	Rue oil	8014-29-7	04.01 (07.02)	**R**
141	Safrole, Isosafrole, Dihydrosafrole	94-59-7 120-58-1 94-58-6	07.87 (04.99)	**P** **R**
142	*Santolina oil*	*84961-58-0*	*(07.08)*	***P***
143	Savin oil	8024-00-8	06.82	**P-S**
144	Sclareol	515-03-7	04.05	**S**
145	Styrax		07.94	**R**
146	Tagetes oil and absolute	91722-29-1	04.01 (04.05)	**R**
147	Tea leaf (camellia sinensis) absolute	84650-60-2	05.06	**R**
148	Toluene	108-88-3	04.04	**P**
149	**Tree moss extracts**	**68648-41-9**	**07.08**	**R-S**
150	2,6,6-Trimethylcyclohexa-1,3-dienyl methanal (Safranal)	116-26-7	12.98	**R**
151	Verbena absolute	8024-12-2	11.87	**R**
152	Verbena oil	8024-12-2	12.81 (05.06)	**P**

	Substance	CAS	Last Amended	Standard
NEW 153	**Ylang Ylang Extracts**	**8006-81-3 68606-83-7 83863-30-3**	**07.08**	**R**