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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.

Substance	CAS	Latest Amendment	Recommen-dation
Acetylated Vetiver oil	84082-84-8	02.80	S
Acetyl ethyl tetramethyl tetralin (AETT, Versalide)	88-29-9	11.77 (05.06) [1]	P
5-Acetyl-1,1,2,3,3,6-hexamethyl indan (Phantolide)	15323-35-0	10.87 (04.05)	R
Acetyl isovaleryl (5-Methyl-2,3-hexanedione)	13706-86-0	02.80 (05.06)	P
Allantroot oil (Elecampane oil)	97676-35-2	06.75 (05.06)	P
Allyl esters		02.77	S
Allyl heptine carbonate	73157-43-4	04.99 (04.05)	R
Allyl isothiocyanate	57-06-7	N/A	P (OM)[2]
Amyl cyclopentenone (2-Pentyl-2-cyclopenten-1-one)	25564-22-1	07.94 (04.05)	R
Angelica root oil	8015-64-3	10.78 (04.05)	R
Anisylidene acetone (4-(p-methoxyphenyl)-3-butene-2-one)	943-88-4	11.74 (05.06)	P
cis-and trans-Asarone ((E)-and(Z)-2,4,5-Trimethoxypropen-1-yl benzene)	2883-98-9 5273-86-9	12.91	P 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.

[2] **Substances that are marked (OM)** are part of the List of Other Materials, i.e. materials not used as or in fragrance ingredients or for which safe conditions of use have not been established.

Substance	CAS	Latest Amendment	Recommen-dation
Benzene	71-43-2	04.04	P
Benzyl cyanide	140-29-4	04.04	P
Benzylidene acetone (4-Phenyl-3-buten-2-one)	122-57-6	06.74 (05.06)	P
Bergamot oil expressed	8007-75-8	06.92	R
Birch wood pyrolysate	8001-88-5 84012-15-7 85940-29-0 68917-50-0	04.04	S P
Bitter orange peel oil expressed	68916-04-1 72968-50-4	07.02	R
3-Bromo-1,7,7-trimethylbicyclo[2.2.1]heptane-2-one	76-29-9	N/A	P (OM)
Bromostyrene	103-64-0	N/A	P (OM)
p-t-Butyl-alpha-methylhydrocinnamic aldehyde (BMHCA)	80-54-6	04.03	R
p-tert-Butyl-dihydrocinnamaldehyde (Bourgeonal)	18127-01-0	07.94	R
p-tert-Butylphenol	98-54-4	06.75 (05.06)	P
Cade oil (Juniperus Oxycedrus L.)	8013-10-3 90046-02-9	04.04	S P
Carvone oxide	33204-74-9	04.04	P
Chenopodium oil	8006-99-3	N/A	P (OM)
Cinnamic alcohol	104-54-1	04.03	R
Cinnamic aldehyde	104-55-2	05.06	R
Cinnamylidene acetone	4173-44-8	N/A	P (OM)
Cinnamyl nitrile	4360-47-8 1885-38-7	07.02	R
Citral (Lemarome)	5392-40-5	05.06	R
Citrus oils and other furocoumarins containing essential oils		12.96	R

Substance	CAS	Latest Amendment	Recommen-dation
Colophony	8050-09-7	12.92 (05.06)	P
Costus root oil, absolute and concrete		10.79 (05.06)	P
Cumin oil		06.86 (04.05)	R
Cyclamen alcohol (3-(4-Isopropylphenyl)-2-methylpropanol)	4756-19-8	10.78 (02.80)	P R
1,3-Dibromo-4-methoxy-2-methyl-5-nitrobenzene (Musk alpha)		N/A	P (OM)
2,6-Dibromo-3-methyl-4-nitroanisole (Musk KS)	62265-99-0	N/A	P (OM)
2,2-Dichloro-1-methylcyclopropylbenzene	3591-42-2	N/A	P (OM)
Diethyl maleate	141-05-9	06.75 (05.06)	P
Dihydrocoumarin (Melilotine)	119-84-6	10.74 (05.06)	P
2,4-Dihydroxy-3-methylbenzaldehyde	6248-20-0	02.84 (05.06)	P
4,6-Dimethyl-8-tert-butylcoumarin (Butolia)	17874-34-9	02.79 (05.06)	P
3,7-Dimethyl-2-octen-1-ol	40607-48-5	04.04	P
Dimethyl citraconate	617-54-9	10.76 (05.06)	P
Diphenylamine	122-39-4	04.04	P
Esters of 2-octynoic acid, except methyl and allyl heptine carbonate		N/A	P (OM)
Esters of 2-nonynoic acid, except methyl octine carbonate		N/A	P (OM)
Ethyl acrylate	140-88-5	11.74 (05.06)	P
Ethylene Glycol Monoethyl Ether and its Acetate	110-80-5 111-15-9 (acetate)	04.04	P
Ethylene Glycol Monomethyl Ether and its Acetate	109-86-4 110-49-6 (acetate)	04.04	P

Substance	CAS	Latest Amendment	Recommen-dation
Eugenol	97-53-0	05.06	R
Farnesol	4602-84-0	05.06	R S
Fig leaf absolute	68916-52-9	10.80 (05.06)	P
Furfurylideneacetone	623-15-4	N/A	P (OM)
Geranyl nitrile	5146-66-7 5585-39-7 31983-27-4	11.06	P (OM)
Grapefruit oil expressed	8016-20-4	06.92	R
trans-2-Heptenal	18829-55-5	02.85 (05.06)	P
Hexahydrocoumarin	700-82-3	02.80 (05.06)	P
trans-2-Hexenal	6728-26-3	05.06	R
trans-2-Hexenal diethyl acetal	67746-30-9	02.85 (05.06)	P
trans-2-Hexenal dimethyl acetal	18318-83-7	02.85 (05.06)	P
alpha-Hexylidene cyclopentanone	17373-89-6	07.94	R
Hydroabietyl alcohol, dihydroabietyl alcohol	13393-93-6 26266-77-3 1333-89-7	04.04	P
Hydroquinone monoethyl ether (4-ethoxy-Phenol)	622-62-8	02.82 (05.06)	P
Hydroquinone monomethyl ether (4-methoxy-Phenol)	150-76-5	10.83 (05.06)	P
Hydroxycitronellal (Laurine, Hydronal, Phixia, Laurinal)	107-75-5	03.87 (04.05)	R
3 and 4-(4-Hydroxy-4-methylpentyl)-3-cyclohexene-1-carboxaldehyde (HMPCC)	31906-04-4 51414-25-6	04.03	R
Isocyclogeraniol (2,4,6-Trimethyl-3-cyclohexene-1-methanol)	68527-77-5	12.95 (04.05)	R
Isoeugenol	97-54-1	04.04	R

Substance	CAS	Latest Amendment	Recommen-dation
Isophorone	78-59-1	N/A	P (OM)
6-Isopropyl-2-decalol (Decatol)	34131-99-2	06.79 (05.06)	P
Lemon oil cold pressed		06.92	R
Lime oil expressed		06.92	R
Limonene	138-86-3	12.95	S
Linalool	78-70-6 126-90-9 126-91-0	04.04	S
Massoia bark oil	85085-26-3	N/A	P (OM)
Massoia lactone	54814-64-1	N/A	P (OM)
Melissa oil (genuine Melissa officinalis)		N/A	P (OM)
Menthadienyl formate (Isobergamate)	68683-20-5	07.94 (04.05)	R
7-Methoxycoumarin	531-59-9	06.79 (04.89)	P
Methoxy dicylopentadiene carboxaldehyde (Scentenal)	86803-90-9	05.98	R
2-Methoxy-4-methylphenol (Creosol)	93-51-6	01.99 (04.05)	R
alpha-Methyl anisylidene acetone (1-(4-Methoxyphenyl)-1-penten-3-one)	104-27-8	11.77 (05.06)	P
6-Methylcoumarin (Toncarine)	92-48-8	10.78 (05.06)	P
7-Methylcoumarin	2445-83-2	02.79 (05.06)	P
Methyl crotonate	623-43-8	03.78 (05.06)	P
4-Methyl-7-ethoxycoumarin (Maraniol)	87-05-8	06.79 (05.06)	P
Methyl Eugenol	93-15-2	07.02	R

Substance	CAS	Latest Amendment	Recommen-dation
Methyl heptadienone (6-Methyl-3,5-heptadienone)	1604-28-0	04.89 (04.99)	R
Methyl heptine carbonate (MHC, Folione)	111-12-6	04.00 (04.05)	R
p-Methylhydrocinnamic aldehyde	5406-12-2	07.94 (04.05)	R
Methyl methacrylate	80-62-6	N/A	P (OM)
Methyl N-methylanthranilate (Dimethyl anthranilate)	85-91-6	05.06	R
Methyl beta-naphtyl ketone	93-08-3	04.05	R
3-Methyl-2(3)-nonenenitrile (Citgrenile)	53153-66-5	02.80 (05.83)	R
Methyl octine carbonate (MOC)	111-80-8	04.00	R
Moskene (1,1,3,3,5-Pentamethyl-4,6-dinitroindane)	116-66-5	04.05	P (OM)
Musk ambrette	83-66-9	07.94 (05.06)	P
Musk tibetene (1-tert-Butyl-2,6-dinitro-3,4,5-trimethylbenzene)	145-39-1	04.05	P (OM)
Nitrobenzene	98-95-3	06.74 (05.06)	P
Nootkatone	4674-50-4	05.06	S
Oak moss extracts	9000-50-4	07.01 (07.02)	R
1-Octen-3-yl acetate (Amyl vinyl carbinyl acetate)	2442-10-6	07.94	R
Opoponax		07.94 (04.99)	R
2-Pentylidene cyclohexanone	25677-40-1	02.79 (05.06)	P
Perilla aldehyde	2111-75-3	07.94	R
Peru balsam		12.91	R

Substance	CAS	Latest Amendment	Recommen-dation
Petitgrain Mandarin Oil	8014-17-3	04.01 (07.02)	R
Phenylacetaldehyde (Hyacinthin)	122-78-1	05.06	R
Phenyl acetone (Methyl benzyl ketone)		N/A	P (OM)
Phenyl benzoate	93-99-2	N/A	P (OM)
Pinacea derivatives		07.94	S
Propylidene phthalide	17369-59-4	07.94	R
Pseudoionone (2,6-Dimethylundeca-2,6,8-trien-10-one)	141-10-6	07.87 (05.06)	P
Pseudomethylionone (7,11-Dimethyl-4,6,10-dodecatrien-3-one)	26651-96-7	10.79 (05.06)	P
Rue oil	8014-29-7	04.01 (07.02)	R
Safrole, Isosafrole, Dihydrosafrole	94-59-7 120-58-1 94-58-6	07.87 (04.99)	P R
Santolina oil	84961-58-0	05.06	P (OM)
Savin oil	8024-00-8	06.82	S
Sclareol	515-03-7	04.05	S
Styrax		07.94	R
Tagetes oil and absolute	91722-29-1	04.01 (04.05)	R
Tea leaf (camellia sinensis) absolute	84650-60-2	05.06	R
Toluene	108-88-3	04.04	P
Tree moss extracts	68648-41-9	07.01 (07.02)	R
2,6,6-Trimethylcyclohexa-1,3-dienyl methanal (Safranal)	116-26-7	12.98	R

Substance	CAS	Latest Amendment	Recommen-dation
1-(Trimethylcyclohexenyl/cyclohexadienyl)-2-buten-1-ones (Rose ketones)		12.95 (04.99)	R
Verbena absolute	8024-12-2	11.87	R
Verbena oil	8024-12-2	12.81 (05.06)	P