

IFRA Standards

Index of IFRA Standards – 49th Amendment

10 January 2020

This document provides a complete index of the IFRA Standards, based on the 49th Amendment to the Standards. This Amendment was notified on 10 January 2020.

The IFRA Standards are categorized as follows:

- ≡ **Prohibition:** This material should not be used as a fragrance ingredient.
- ≡ **Restriction:** This material should be used only in the limited quantity as stated in the Standard.
- ≡ **Specification:** This material should be used only if it meets the criteria stated in the Standard.

In some cases, more than one category is applicable.

Name of Ingredient	CAS Number	Standard	Publication Year
Acetic acid, anhydride, reaction products with 1,5,10-Trimethyl-1,5,9-cyclododecatriene	144020-22-4 28371-99-5	Restriction	2020
Acetylated Vetiver oil	84082-84-8 68917-34-0 73246-97-6 62563-80-8	Restriction	2020
Acetyl ethyl tetramethyl tetralin (AETT)	88-29-9	Prohibition	2006
Acetyl hexamethyl indan (AHMI)	15323-35-0	Restriction	2020
Acetyl isovaleryl	13706-86-0	Prohibition	2006
Alantroot oil	84012-20-4 97676-35-2	Prohibition	2006
Allyl esters	Not applicable.	Specification	2009
Allyl heptene carbonate	73157-43-4	Prohibition	2008
Allyl isothiocyanate	57-06-7	Prohibition	2008
Allyl phenoxyacetate	7493-74-5 863306-60-9	Restriction Specification	2020
α -Amyl cinnamic alcohol	101-85-9	Restriction	2020
α -Amyl cinnamic aldehyde	122-40-7	Restriction	2020
Amylcyclopentenone	25564-22-1	Prohibition	2008



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Name of Ingredient	CAS Number	Standard	Publication Year
Angelica root oil	8015-64-3 84775-41-7	Restriction	2020
Anisyl alcohol	105-13-5 1331-81-3	Restriction	2020
Anisylidene acetone	943-88-4	Prohibition	2006
cis-and trans-Asarone	494-40-6 2883-98-9 5273-86-9	Prohibition Restriction	2006
Benzaldehyde	100-52-7	Restriction	2020
Benzene	71-43-2	Prohibition Specification	2004
Benzyl alcohol	100-51-6	Restriction	2020
Benzyl benzoate	120-51-4	Restriction	2020
Benzyl cinnamate	103-41-3	Restriction	2020
Benzyl cyanide	140-29-4	Prohibition Restriction	2004
Benzyl salicylate	118-58-1	Restriction	2020
Benzylidene acetone	122-57-6	Prohibition	2006
Bergamot oil expressed	8007-75-8 89957-91-5	Restriction	2020
Birch wood pyrolysate	8001-88-5 68917-50-0 84012-15-7 85251-66-7 85940-29-0 91745-85-6	Prohibition Specification	2013
α -Bisabolol	515-69-5 23089-26-1 23178-88-3 78148-59-1 76738-75-5 72691-24-8	Restriction	2020
Bitter orange peel oil expressed	68916-04-1 72968-50-4	Restriction	2020
Boldo oil	8022-81-9 84649-96-7	Prohibition	2009
Bromostyrene	103-64-0	Prohibition	2008
3-Bromo-1,7,7-trimethylbicyclo[2.2.1]heptane-2-one	76-29-9	Prohibition	2008
α -Butylcinnamaldehyde	7492-44-6	Restriction	2020
p-tert-Butylidihydrocinnamaldehyde	18127-01-0	Restriction	2020



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Name of Ingredient	CAS Number	Standard	Publication Year
p-tert-Butyl- α -methylhydrocinnamic aldehyde (p-BMHCA)	80-54-6	Restriction Prohibition	2020
p-tert-Butylphenol	98-54-4	Prohibition	2006
3-(m-tert-Butylphenyl)-2-methylpropionaldehyde (m-BMHCA)	62518-65-4	Restriction	2020
Cade oil	8013-10-3 90046-02-9	Prohibition Specification	2013
Carvone	99-49-0 2244-16-8 6485-40-1	Restriction	2020
Carvone oxide	33204-74-9	Prohibition	2004
Cedrene	11028-42-5 469-61-4 546-28-1	Restriction	2020
Chenopodium oil	8006-99-3 8024-11-1 89997-47-7	Prohibition	2008
Cinnamic alcohol	104-54-1	Restriction	2020
Cinnamic aldehyde	104-55-2	Restriction	2020
Cinnamic aldehyde dimethyl acetal	4364-06-1	Restriction	2020
Cinnamylidene acetone	4173-44-8	Prohibition	2008
Cinnamyl nitrile	1885-38-7 4360-47-8	Restriction	2020
Citral	5392-40-5 141-27-5 106-26-3	Restriction	2020
Citronellal	106-23-0 5949-05-3	Restriction	2020
Citronellol	106-22-9 1117-61-9 26489-01-0 6812-78-8 141-25-3 7540-51-4	Restriction	2020
Citrus oils and other furocoumarins containing essential oils	Not applicable.	Restriction	2020
Colophony	8050-09-7	Prohibition	2006
Costus root oil, absolute and concrete	8023-88-9 90106-55-1	Prohibition	2006
Coumarin	91-64-5	Restriction	2020
Cumin oil	8014-13-9 84775-51-9	Restriction	2020
Cuminaldehyde	122-03-2	Restriction	2020



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Name of Ingredient	CAS Number	Standard	Publication Year
Cyclamen alcohol	4756-19-8	Prohibition Specification	1980
Cyclamen aldehyde	103-95-7	Restriction Specification	2020
Cyclohexanemethanol, 2,4-dimethyl-	68480-15-9	Restriction	2020
Cyclopentadecanolide	106-02-5	Restriction	2020
Dibenzyl ether	103-50-4	Restriction	2020
2,2-Dichloro-1-methylcyclopropylbenzene	3591-42-2	Prohibition	2008
2,4-Dienals	764-40-9	Prohibition	2013
	142-83-6		
	80466-34-8		
	5910-85-0		
	30361-28-5		
	6750-03-4		
	2363-88-4		
	13162-46-4		
	21662-16-8		
	25152-84-5		
	30361-29-6		
4313-03-5			
20432-40-0			
4488-48-6			
5577-44-6			
5910-87-2			
Diethyl maleate	141-05-9	Prohibition	2006
Dihydrocoumarin	119-84-6	Restriction	2020
2,4-Dihydroxy-3-methylbenzaldehyde	6248-20-0	Prohibition	2006
6,7-Dihydro-1,1,2,3,3-pentamethyl-4(5H)-indanone (DPMI)	33704-61-9	Restriction	2020
4,6-Dimethyl-8-tert-butylcoumarin	17874-34-9	Prohibition	2006
Dimethyl citraconate	617-54-9	Prohibition	2006
Dimethylcyclohex-3-ene-1-carbaldehyde (mixed isomers)	68737-61-1 (mixed isomers)	Restriction	2020
	68039-49-6		
	68039-48-5		
	27939-60-2		
	67801-65-4		
	36635-35-5		
	68084-52-6		
35145-02-9			
1-(5,5-Dimethyl-1-cyclohexen-1-yl)pent-4-en-1-one	56973-85-4	Restriction	2020



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Name of Ingredient	CAS Number	Standard	Publication Year
4,8-Dimethyl-4,9-decadienal	71077-31-1	Restriction	2020
5,9-Dimethyl-4,8-decadienal	762-26-5	Restriction	2020
3,7-Dimethyl-2,6-nonadien-1-al	41448-29-7	Restriction	2020
3,7-Dimethyl-3,6-octadienal	55722-59-3 1754-00-3 72203-98-6 72203-97-5	Restriction	2020
3,7-Dimethyl-2-octen-1-ol	40607-48-5	Prohibition	2004
2,2-Dimethyl-3-(3-tolyl)propan-1-ol	103694-68-4	Restriction Specification	2020
3,3-Dimethyl-5-(2,2,3-trimethyl-3-cyclopenten-1-yl)-4-penten-2-ol	107898-54-4	Restriction	2020
Diphenylamine	122-39-4	Prohibition	2004
2,4-Dodecadien-1-ol, (2E, 4E)	18485-38-6	Prohibition	2015
Esters of 2-Nonynoic acid (except Methyl octine carbonate)	e.g.: 10031-92-2	Prohibition	2008
Esters of 2-Octynoic acid (except Methyl heptine carbonate)	e.g.: 10484-32-9 10519-20-7	Prohibition	2008
Estragole	140-67-0 1407-27-8 77525-18-9	Restriction	2020
2-Ethoxy-4-methylphenol	2563-07-7	Restriction	2020
Ethyl acrylate	140-88-5	Prohibition	2006
p-Ethylbenzaldehyde	4748-78-1	Restriction	2020
Ethylene glycol monoethyl ether and its acetate	110-80-5 (ether) 111-15-9 (acetate)	Prohibition	2004
Ethylene glycol monomethyl ether and its acetate	109-86-4 (ether) 110-49-6 (acetate)	Prohibition	2004
Eugenol	97-53-0	Restriction	2020
Farnesal	19317-11-4	Restriction	2020
Farnesol	4602-84-0	Restriction Specification	2020
Fig leaf absolute	68916-52-9 90028-74-3	Prohibition	2006
Furfural	98-01-1	Restriction	2020
Furfuryl alcohol	98-00-0	Prohibition	2015
Furfurylidene acetone	623-15-4	Prohibition	2008



Name of Ingredient	CAS Number	Standard	Publication Year
Geraniol	106-24-1	Restriction	2020
Geranyl nitrile	5146-66-7 5585-39-7 31983-27-4	Prohibition	2008
Grapefruit oil expressed	8016-20-4 90045-43-5	Restriction	2020
trans-2-Heptenal	18829-55-5	Prohibition	2006
2-Heptylidene cyclopentan-1-one	39189-74-7	Restriction	2020
2,4-Hexadien-1-ol	111-28-4 17102-64-6	Prohibition	2015
Hexahydrocoumarin	700-82-3	Prohibition	2006
trans-2-Hexenal	6728-26-3	Restriction	2020
trans-2-Hexenal diethyl acetal	67746-30-9	Prohibition	2006
trans-2-Hexenal dimethyl acetal	18318-83-7	Prohibition	2006
α -Hexyl cinnamic aldehyde	101-86-0	Restriction	2020
Hexyl salicylate	6259-76-3	Restriction	2020
α -Hexylidene cyclopentanone	17373-89-6	Restriction	2020
Hydroabietyl alcohol, Dihydroabietyl alcohol	13393-93-6 26266-77-3 1333-89-7	Prohibition	2004
Hydroquinone monoethyl ether	622-62-8	Prohibition	2006
Hydroquinone monomethyl ether	150-76-5	Prohibition	2006
4-Hydroxy-2,5-dimethyl-3(2H)-furanone	3658-77-3	Restriction	2020
3 and 4-(4-Hydroxy-4-methylpentyl)-3-cyclohexene-1-carboxaldehyde (HMPCC)	31906-04-4 51414-25-6	Restriction	2020
Hydroxycitronellal	107-75-5	Restriction	2020
4-(4-Hydroxyphenyl)butan-2-one	5471-51-2	Restriction	2020
Isobutyl N-methylanthranilate	65505-24-0	Specification	2009
p-Isobutyl- α -methyl hydrocinnamaldehyde	6658-48-6	Restriction	2020
Isocyclocitral	1335-66-6 1423-46-7 67634-07-5	Restriction	2020
Isocyclogeraniol	68527-77-5	Restriction	2020
Isoeugenol	97-54-1 5932-68-3	Restriction	2020
Isophorone	78-59-1	Prohibition Restriction	2020



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Name of Ingredient	CAS Number	Standard	Publication Year
p-Isopropylbenzyl alcohol	536-60-7	Restriction	2020
6-Isopropyl-2-decalol	34131-99-2	Prohibition	2006
cis,trans-4-(Isopropyl) cyclohexanemethanol	5502-75-0 13828-37-0 13674-19-6	Restriction	2020
4-(Isopropyl)-.β.-methylcyclohexanethanol	67634-03-1	Restriction	2020
Jasmine absolute (grandiflorum)	8022-96-6 8024-43-9 90045-94-6 84776-64-7	Restriction	2020
Jasmine absolute (sambac)	91770-14-8 1034798-23-6	Restriction	2020
Lemon oil cold pressed	8008-56-8 84929-31-7	Restriction	2020
Lime oil expressed	8008-26-2 90063-52-8	Restriction	2020
Limonene	138-86-3 7705-14-8 5989-27-5 5989-54-8	Specification	1995
Linalool	78-70-6 126-90-9 126-91-0	Specification	2004
Longifolene	475-20-7 16846-09-6 19067-29-9	Restriction	2020
Massoia bark oil	85085-26-3	Prohibition	2008
Massoia lactone	54814-64-1 51154-96-2	Prohibition	2015
Melissa oil (genuine Melissa officinalis L.)	8014-71-9 84082-61-1	Restriction	2020
Menthadiene-7-methyl formate	68683-20-5	Restriction	2020
p-Methoxybenzaldehyde	123-11-5	Restriction	2020
o-Methoxycinnamaldehyde	1504-74-1	Restriction	2020
7-Methoxycoumarin	531-59-9	Prohibition Restriction	2008
Methoxy dicyclopentadiene carboxaldehyde	86803-90-9	Restriction	2020
4-Methoxy-α-methylbenzenepropanal	5462-06-6	Restriction	2020
2-Methoxy-4-methylphenol	93-51-6	Restriction	2020
2-Methoxy-4-propylphenol	2785-87-7	Restriction	2020
α-Methyl anisylidene acetone	104-27-8	Prohibition	2006



Name of Ingredient	CAS Number	Standard	Publication Year
α -Methyl-1,3-benzodioxole-5-propionaldehyde (MMDHCA)	1205-17-0	Restriction	2020
α -Methyl cinnamic aldehyde	101-39-3	Restriction	2020
6-Methylcoumarin	92-48-8	Prohibition	2006
7-Methylcoumarin	2445-83-2	Prohibition	2006
Methyl crotonate	623-43-8	Prohibition	2006
4-Methyl-7-ethoxycoumarin	87-05-8	Prohibition	2006
Methyl eugenol	93-15-2	Restriction	2020
Methyl N-formylanthranilate	41270-80-8	Restriction Specification	2020
6-Methyl-3,5-heptadien-2-one	1604-28-0	Restriction	2020
Methyl heptine carbonate	111-12-6	Restriction	2020
p-Methylhydrocinnamic aldehyde	5406-12-2	Prohibition	2008
Methyl ionone, mixed isomers	1335-46-2 127-42-4 127-43-5 127-51-5 7779-30-8 79-89-0 1335-94-0	Restriction Specification	2020
Methyl methacrylate	80-62-6	Prohibition	2008
Methyl N-methylantranilate	85-91-6	Restriction Specification	2020
Methyl β -naphthyl ketone	93-08-3	Restriction	2020
3-Methyl-2(3)-nonenenitrile	53153-66-5	Prohibition	2008
Methyl octine carbonate	111-80-8	Restriction	2020
3-Methyl-2-(pentyloxy)cyclopent-2-en-1-one	68922-13-4	Restriction	2020
p-Methyltetrahydroquinoline	91-61-2	Specification	2009
Musk α	63697-53-0	Prohibition	2008
Musk ambrette	83-66-9	Prohibition	2006
Musk ketone	81-14-1	Specification	2010
Musk KS	62265-99-0	Prohibition	2008
Musk moskene	116-66-5	Prohibition	2008
Musk tibetene	145-39-1	Prohibition	2008
Musk xylene	81-15-2	Prohibition	2009



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Name of Ingredient	CAS Number	Standard	Publication Year
Nitrobenzene	98-95-3	Prohibition	2006
2-Nonyn-1-al dimethyl acetal	13257-44-8	Restriction	2020
Nootkatone	4674-50-4	Specification	2006
Oakmoss extracts	90028-68-5 68917-10-2 9000-50-4	Restriction Specification	2020
1-(1,2,3,4,5,6,7,8 Octahydro-2,3,8,8-tetramethyl-2-naphthalenyl) ethanone (OTNE)	54464-57-2 54464-59-4 68155-66-8 68155-67-9	Restriction	2020
1-Octen-3-yl acetate	2442-10-6	Restriction	2020
Opoponax	8021-36-1 9000-78-6 93384-32-8	Restriction Specification	2020
1-(2,4,4,5,5-Pentamethyl-1-cyclopenten-1-yl)ethan-1-one	13144-88-2	Restriction	2020
2-Pentylidene cyclohexanone	25677-40-1	Prohibition	2006
Perilla aldehyde	2111-75-3	Restriction	2020
Peru balsam	8007-00-9	Restriction Prohibition	2020
Phenylacetaldehyde	122-78-1	Restriction	2020
Phenyl acetone	103-79-7	Prohibition	2008
Phenyl benzoate	93-99-2	Prohibition	2008
3-Phenylbutanal	16251-77-7	Restriction	2020
4-Phenyl-3-buten-2-ol	17488-65-2	Restriction	2020
2-Phenylpropionaldehyde	93-53-8 1340-11-0 34713-70-7	Restriction	2020
Pinacea derivatives	Not applicable.	Specification	1994
Propenylguaethol	94-86-0 63477-41-8	Restriction	2020
3-Propylidenephthalide	17369-59-4	Restriction	2020
Pseudoionone	141-10-6	Prohibition Specification	2006
Pseudo methylionones	26651-96-7 72968-25-3 1117-41-5	Prohibition Specification	2009
Quinoline	91-22-5	Prohibition	2010



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Name of Ingredient	CAS Number	Standard	Publication Year
Rose ketones	23696-85-7	Restriction	2020
	23726-93-4		
	59739-63-8		
	43052-87-5		
	24720-09-0		
	23726-94-5		
	23726-92-3		
	23726-91-2		
	35044-68-9		
	57378-68-4		
	71048-82-3		
	35087-49-1		
	39872-57-6		
70266-48-7			
33673-71-1			
87064-19-5			
Rue oil	8014-29-7 84929-47-5	Restriction	2020
Safrole, Isosafrole and Dihydrosafrole	94-59-7 120-58-1 94-58-6	Prohibition Restriction	1987
Santolina oil	84961-58-0	Prohibition	2008
Savin oil	8024-00-8 90046-04-1 68916-94-9 90046-03-0	Prohibition Specification	1982
Sclareol	515-03-7	Specification	2006
Styrax	8046-19-3 8024-01-9 94891-27-7 94891-28-8 101227-15-0	Prohibition Restriction Specification	2020
Tagetes oil and absolute	90131-43-4 8016-84-0 91722-29-1 8016-84-0 91770-75-1	Prohibition Restriction Specification	2020
Tea leaf absolute	84650-60-2	Restriction	2020
1,2,3,4-Tetrahydro-4-methylquinoline	19343-78-3	Specification	2009
α ,2,2,3-Tetramethylcyclopent-3-ene-1-butylaldehyde	65114-03-6	Restriction	2020
Thujone	546-80-5 471-15-8 76231-76-0 1125-12-8	Restriction	2020



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Name of Ingredient	CAS Number	Standard	Publication Year
o,m,p-Tolualdehydes and their mixtures	529-20-4	Restriction	2020
	620-23-5		
	104-87-0		
	1334-78-7		
Toluene	108-88-3	Prohibition Specification	2004
p-Tolyl alcohol	589-18-4	Restriction	2020
Treemoss extracts	90028-67-4	Restriction Specification	2020
	68648-41-9		
	68917-40-8		
2,6,6-Trimethylcyclohex-1,3-dienyl methanal	116-26-7	Restriction	2020
5-(2,2,3-Trimethyl-3-cyclopentenyl)-3-methylpentan-2-ol	65113-99-7	Restriction	2020
2,6,10-Trimethylundeca-5,9-dien-1-ol	24048-14-4	Restriction	2020
	185019-19-6		
	58001-88-0		
	58001-87-9		
	1373932-23-0		
1018832-07-9			
Verbena oil and absolute (Lippia citriodora Kunth.)	8024-12-2	Restriction	2020
	85116-63-8	Prohibition	
Ylang ylang extracts	8006-81-3	Restriction	2020
	68606-83-7		
	83863-30-3		