

GCC هيئة التقييس لدول مجلس التعاون لدول الخليج العربية  
STANDARDIZATION ORGANIZATION (GSO)

مشروع أولي

GSO 05 FDS 707 / 2016

المنكهات المسموح باستخدامها في المنتجات الغذائية

**FLAVOURINGS PERMITTED FOR  
USE IN FOODSTUFFS**

إعداد

اللجنة الفنية الخليجية لقطاع المواصفات الغذائية والزراعية

هذه الوثيقة مشروع لمواصفة قياسية خليجية تم توزيعها لإبداء الرأي والملاحظات بشأنها، لذلك فإنها عرضة للتغيير والتبديل، ولا يجوز الرجوع إليها كمواصفة قياسية خليجية إلا بعد اعتمادها من مجلس إدارة الهيئة.

ICS:

## تقديم

هيئة التقييس لدول مجلس التعاون لدول الخليج العربية هيئة إقليمية تضم في عضويتها الأجهزة الوطنية للمواصفات والمقاييس في دول الخليج العربية، ومن مهام الهيئة إعداد المواصفات القياسية الخليجية بواسطة لجان فنية متخصصة.

وقد قامت هيئة التقييس لدول مجلس التعاون لدول الخليج العربية ضمن برنامج عمل اللجنة الفنية رقم ٥ "اللجنة الفنية الخليجية لقطاع مواصفات المنتجات الغذائية والزراعية" بتحديث المواصفة القياسية الخليجية رقم GSO 707: المنكهات المسموح باستخدامها في المنتجات الغذائية، وقامت (المملكة العربية السعودية) بإعداد مشروع هذه المواصفة.

وقد اعتمدت هذه المواصفة كلائحة فنية خليجية في اجتماع مجلس إدارة الهيئة رقم ( ) ، الذي عقد بتاريخ هـ ، الموافق / / م على أن تلغي المواصفة رقم (707/ 1997) وتحل محلها.

## المنكهات المسموح باستخدامها في المنتجات الغذائية

<b>1</b>	<b>المجال ونطاق التطبيق</b>
	تختص هذه المواصفة القياسية بالمنكهات الطبيعية والمنكهات الاصطناعية ومحسنات النكهة المسموح باستخدامها في المنتجات الغذائية والمعدة للاستهلاك البشري.
<b>2</b>	<b>المراجع التكميلية</b>
1.2	GSO 9 " بطاقات المواد الغذائية المعبأة " .
2.2	GSO 2500 " المواد المضافة المسموح باستخدامها في المواد الغذائية "
3.2	GSO 2365 " إرشادات استخدام المنكهات في الأغذية "
4.2	GSO 1931 " الأغذية الحلال- الجزء الأول: الاشتراطات العامة "
5.2	GSO 2359 " مذيبيات الاستخلاص والحدود القصوى المسموح بها المستخدمة في إنتاج المواد الغذائية ومكوناتها "
<b>3</b>	<b>التعاريف</b>
<b>1.3</b>	<b>نكهة</b>
	مجموع خواص أي مادة تؤخذ بالفم والتي تدرك أساساً بإحساس الطعم والرائحة، وأيضاً بمستقبلات اللمس في الفم، وتستقبل وتفسر بواسطة المخ.
<b>2.3</b>	<b>منكهات</b>
	منتجات تضاف الى الأغذية لتضفي أو تعدل أو تعزز نكهة الغذاء (باستثناء معززات النكهة التي تعتبر كمضافات للأغذية طبقاً للمواصفة القياسية الخليجية المذكورة في بند 2.2). لا تشمل المنكهات المواد ذات الطعم شديد الحلاوة أو الحمضي أو الملحي (مثل السكر والخل وملح المائدة). قد تتكون المنكهات من المواد المنكهة أو معقدات النكهة الطبيعية أو المنكهات المعالجة حرارياً أو منكهات الدخان أو مخاليطها، وقد تحتوي على مكونات غذائية غير منكهة (بند 4.3) مع عدم الإخلال بما ورد في البند 3.2، ولا تستهلك المنكهات بمفردها:
<b>1.2.3</b>	<b>مواد منكهة</b>
	مواد ذات تركيب كيميائي محدد والتي تتكون إما بالتخلق الكيميائي أو يتم الحصول عليها من مواد ذات أصل نباتي أو حيواني :
<b>1.1.2.3</b>	<b>مواد منكهة طبيعية</b>
	مواد نكهة يتم الحصول عليها بالعمليات الطبيعية والتي قد تؤدي الى تغيرات غير مقصودة في التركيب الكيميائي للمنكهة ولكن لا يمكن تجنبها (مثل التقطير والاستخلاص بالمذيب)، أو بالعمليات الأنزيمية أو الميكروبيولوجية، من مواد ذات أصل نباتي أو حيواني. قد تصنع أو لا تصنع مثل هذه المواد للاستهلاك الأدمي بواسطة عمليات تحضير الغذاء التقليدية ( مثلاً بالتجفيف والتحميص والتخمير). أي أنها مواد يمكن الكشف عنها/ تمييزها في المواد الطبيعية ذات الأصل النباتي أو الحيواني.

### 2.1.2.3 مواد منكهة مماثلة للنكهة الطبيعية

مواد يتحصل عليها بعملية تخليق كيميائي أو تفصل بعملية كيميائية، على أن تكون هذه المواد مطابقة في تركيبها الكيميائي مع المادة الطبيعية . في الأصل النباتي أو الحيواني طبقاً لما جاء في البند 1.1.2.3 .

### 3.1.2.3 مواد منكهة صناعية

مواد نكهة صناعية تتكون بعملية التخليق الكيميائي.

### 2.2.3 معقدات النكهة الطبيعية

مواد محضرة كيميائياً تحتوي على مواد نكهة، يتم الحصول عليها بالعمليات الطبيعية والتي قد تؤدي الى تغيرات غير مقصودة في التركيب الكيميائي للمكثف ولكن لا يمكن تجنبها (مثل التقطير والإستخلاص بالمذيب)، أو بالعمليات الأنزيمية أو الميكروبيولوجية، من مواد ذات أصل نباتي أو حيواني . قد تكون هذه المواد مصنعة أو غير مصنعة للإستهلاك الأدمي بالعمليات التصنيعية التقليدية للغذاء (مثلاً التجفيف والتحميص والتخمير). تحتوي معقدات النكهة الطبيعية على الزيوت العطرية والخلصات العطرية أو المستخلصات العطرية أو البروتينات المحلل أو المتقطر أو أي منتج من التخميص أو التسخين أو من التحلل الأنزيمي.

### 3.2.3 منكهات محضرة من الدخان

مخاليط معقدة لمكونات الدخان، يتم الحصول عليها بتعريض أخشاب غير معاملة للتحلل الحراري في كمية محددة ومضبوطة من الهواء، ثم التقطير الجاف أو التسخين الزائد بالبخر، ثم يعرض دخان الخشب الى نظام إستخلاص مائي أو للتقطير، ثم يكثف ويفصل ويجمع المحلول المائي. مكونات النكهة الرئيسية لمنكهات الدخان هي أحماض كربوكسيلية ومركبات ذات مجاميع كربونيل ومركبات فينولية.

### 4.2.3 منكهات محضرة بالمعاملة الحرارية

منتجات يتم الحصول عليها طبقاً لممارسات التصنيع الجيدة عن طريق التسخين لدرجة حرارة لا تتعدى 180°س ولمدة لا تزيد على 15 دقيقة لخليط من المكونات (ليس من الضروري أن يكون لها خصائص المنكهات، على أن يكون واحد منها على الأقل يحتوي على نيتروجين 0 أمينو) والآخر سكر مختزل .

### 3.3 محسنات النكهة

مواد تستخدم بصفة أساسية بغرض زيادة تأثير نكهة بعض المكونات الغذائية.

### 4.3 مكونات غذائية غير منكهة

مكونات غذائية مثل مضافات الأغذية أو المواد الغذائية التي يمكن إضافتها الى المنكهات، وهي ضرورية لإذابة أو أنتشار أو تخفيف المنكهات، أو تكون ضرورية لإنتاج أو تخزين أو تداول واستخدام المنكهات.

## 4 المتطلبات

يجب أن يتوافر في المنكهات المسموح باستخدامها في المنتجات الغذائية ما يلي:

1.4 الحدود القصوى لمواد معينة تم الحصول عليها من المنكهات وغيرها من المواد الغذائية في الجدول رقم (١).

2.4 أرقام وأسماء التصنيف الغذائي في الجدول (٢)

- 3.4 أن يستخدم فقط المنكهات الواردة في الجدول رقم (٣).
- 4.4 ألا تستخدم النباتات الواردة في الجدول رقم (٤) كمصدر للنكهات الطبيعية .
- 5.4 أن تكون جميع النكهات المستخدمة متوافقة مع متطلبات المواصفة المذكورة في بند 4.2 .

### الجدول رقم ( ١ )

الحدود القصوى لمواد معينة تم الحصول عليها من المنكهات وغيرها من المواد الغذائية

المواد	أغذية ملغ/كغ	مشروبات ملغ/كغ	الإستثناءات
Agaric acid	٢٠	٢٠	١٠٠ ملغ/كغ في الأغذية المحتوية على فطر عش الغراب
Aloin	٠,١	٠,١	
Beta azarone	٠,١	٠,١	١ ملغ/كغ في التوابل المستخدمة في الوجبات الخفيفة
Berberine	٠,١	٠,١	
Coumarin	٢	٢	١٠ ملغ/كغ في أنواع معينة من حلويات الكارميل ٥٠ ملغ/كغ في العلكة
Hydrocyanic acid	١	١	٥٠ ملغ/كغ في حلوى النوجه ( حلوى منت السكر واللوز)، حلوى المارزيبان (حلوى من مسحوق اللوز والسكر وزلال البيض) أو المنتجات المشابه لها. ٥ ملغ/كغ في الفاكهة المعلبة ذات النواة
Hypericine	٠,١	٠,١	١ ملغ/كغ في الحلويات
Pulegone	٢٥	١٠٠	٢٥٠ ملغ/كغ في النعناع والمشروبات المنكهة بالنعناع ٣٥٠ ملغ/كغ في حلوى النعناع
Quassine	٥	٥	١٠ ملغ/كغ في الحلويات المصاصة
Safrole and isosafrole	١	١	١٥ ملغ/كغ في المواد الغذائية المحتوي على جوزة الطيب أو مسحوق قشور جوزة الطيب
Santonin	٠,١	٠,١	

٢٥ ملغ/كغ في المواد الغذائية التي تم تحضيرها بناء على الميرمية	٠,٥	٠,٥	Thuyone (alpha and beta)
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- هذه المواد قد لا تكون مضافة إلى المواد الغذائية أو النكهات. حيث يمكن أن تكون موجودة في المواد الغذائية طبيعياً أو من خلال إضافة النكهات المحضرة من المواد الخام الطبيعية.

## جدول (٢)

### أرقام وأسماء التصنيف الغذائي

رقم التصنيف الغذائي	أسم التصنيف الغذائي
1	منتجات الألبان والمنتجات المشابهة لها
2	الدهون والزيوت والمستحلبات
3	التلج الصالح للأكل
4	الفواكه والخضار المعالجة
5	الحلويات
6	العلكة
7	الحبوب ومنتجاتها
8	منتجات الخبز
9	اللحوم
10	الأسمك ومنتجاتها
11	البيض ومنتجاته
12	السكريات والمشروبات المركزة والعسل والمحليات (Table-top)
13	الأملح و البهارات والشوربات والصلصات والسلطات ومنتجات البروتين
14	الأغذية المخصصة لإستخدامات غذائية معينة
15	المشروبات غير الكحولية
16	الأغذية الجاهزة للأكل والوجبات الخفيفة
17	الحلويات بإستثناء المنتجات المذكورة في التصنيف الغذائي رقم 1 و2 و4

18	المكملات الغذائية بإستثناء المكملات الغذائية للرضع والأطفال الصغار
19	الأغذية المصنعة غير المذكورة في التصنيف الغائي 1 و 18، بإستثناء أغذية الرضع والأطفال الصغار

## الجدول رقم (٣)

## المنكهات المسموح باستخدامها في المنتجات الغذائية

- **FL No.**: الرقم التعريفي للمنكهة حسب التشريع الأوروبي (EU) No 872/2012.
- **JECFA No.**: الرقم التعريفي للمنكهة وفقاً للجنة الخبراء المشتركة من منظمة الأغذية والزراعة للأمم المتحدة ومنظمة الصحة العالمية.

أسم النكهة	أسماء أخرى	قيود الاستخدام	JECFA No.	FL No.
Allyl propionate			1	9.233
Allyl butyrate			2	9.054
Allyl hexanoate			3	9.244
Allyl heptanoate			4	9.097
Allyl octanoate			5	9.119
Allyl nonanoate			6	9.109
Allyl isovalerate			7	9.489
Allyl hexa-2,4-dienoate			8	9.312
Allyl 10-undecenoate			9	
Allyl 2-methylcrotonate	Allyl tiglate		10	9.493
Allyl 2-ethylbutyrate			11	9.41
Allyl cyclohexaneacetate			12	9.482
Allyl cyclohexanepropionate			13	9.498
Allyl cyclohexanebutyrate			14	9.411
Allyl cyclohexanevalerate			15	9.469
Allyl cyclohexanehexanoate			16	9.492
Allyl phenylacetate			17	9.79
Allyl phenoxyacetate			18	9.701



أسم النكهة	أسماء أخرى	قيود الاستخدام	JECFA No.	FL No.
Allyl cinnamate			19	9.741
Allyl anthranilate			20	9.719
Allyl 2-furoate			21	13.004
Benzaldehyde			22	5.013
Benzyl acetate			23	9.014
Benzyl benzoate			24	9.727
Benzyl alcohol			25	2.01
Ethyl formate			26	9.072
Ethyl acetate			27	9.001
Ethyl propionate			28	9.121
Ethyl butyrate			29	9.039
Ethyl valerate	Ethyl pentanoate		30	9.147
Ethyl hexanoate			31	9.06
Ethyl heptanoate			32	9.093
Ethyl octanoate			33	9.111
Ethyl nonanoate			34	9.107
Ethyl decanoate			35	9.059
Ethyl undecanoate			36	9.274
Ethyl dodecanoate			37	9.099
Ethyl tetradecanoate			38	9.104
Ethyl hexadecanoate			39	9.193
Ethyl octadecanoate			40	9.21
Ethanol			41	2.078
3-Methylbutyl formate	Isoamyl formate		42	9.162
Isopentyl acetate	Isoamyl acetate		43	9.024
3-Methylbutyl propionate	Isoamyl propionate		44	9.136

أسم النكهة	أسماء أخرى	قيود الاستخدام	JECFA No.	FL No.
3-Methylbutyl butyrate	Isoamyl butyrate		45	9.055
3-Methylbutyl hexanoate	Isoamyl hexanoate		46	9.07
3-Methylbutyl octanoate	Isoamyl octanoate		47	9.12
3-Methylbutyl nonanoate	Isoamyl nonanoate		48	9.11
Isopentyl isobutyrate			49	9.419
3-Methylbutyl 3-methylbutyrate	Isoamyl isovalerate		50	9.463
Isopentyl 2-methylbutyrate			51	9.53
Isopentanol	Isoamyl alcohol		52	2.003
Citronellyl formate			53	9.078
Geranyl formate			54	9.076
Neryl formate			55	9.212
Rhodinylyl formate			56	9.079
Citronellyl acetate			57	9.012
Geranyl acetate			58	9.011
Neryl acetate			59	9.213
Rhodinylyl acetate			60	9.033
Citronellyl propionate			61	9.129
Geranyl propionate			62	9.128
Neryl propionate			63	9.169
Rhodinylyl propionate			64	9.141
Citronellyl butyrate			65	9.049
Geranyl butyrate			66	9.048
Neryl butyrate			67	9.167
Rhodinylyl butyrate			68	9.927
Citronellyl valerate			69	9.151

أسم النكهة	أسماء أخرى	قيود الاستخدام	JECFA No.	FL No.
Geranyl hexanoate			70	9.067
Citronellyl isobutyrate			71	9.421
Geranyl isobutyrate			72	9.431
Neryl isobutyrate			73	9.424
Rhodinyl isobutyrate			74	9.94
Geranyl isovalerate			75	9.453
Neryl isovalerate			76	9.471
Rhodinyl isovalerate			77	9.465
Geranyl 2-ethylbutyrate	Dimethyl-2,6-octadien-1-yl 2-ethylbutanoate		78	9.515
Formic acid			79	8.001
Acetaldehyde			80	5.001
Acetic acid			81	8.002
Propan-1-ol	Propyl alcohol		82	2.002
Propanal	Propionaldehyde		83	5.002
Propionic acid			84	8.003
Butan-1-ol			85	2.004
Butanal			86	5.003
Butyric acid			87	8.005
Pentan-1-ol			88	2.04
Pentanal			89	5.005
Valeric acid			90	8.007
Hexan-1-ol			91	2.005
Hexanal			92	5.008
Hexanoic acid			93	8.009
Heptan-1-ol			94	2.021

أسم النكهة	أسماء أخرى	قيود الاستخدام	JECFA No.	FL No.
Heptanal			95	5.031
Heptanoic acid			96	8.028
Octan-1-ol			97	2.006
Octanal			98	5.009
Octanoic acid			99	8.01
Nonan-1-ol			100	2.007
Nonanal			101	5.025
Nonanoic acid			102	8.029
Decan-1-ol			103	2.024
Decanal			104	5.01
Decanoic acid			105	8.011
Undecan-1-ol			106	2.057
Undecanal			107	5.034
Undecanoic acid			108	8.042
Dodecan-1-ol			109	2.008
Dodecanal			110	5.011
Dodecanoic acid			111	8.012
Tetradecanal			112	5.032
Tetradecanoic acid			113	8.016
Hexadecan-1-ol	1-hexadecanol		114	2.009
Hexadecanoic acid	Palmitic acid		115	8.014
Octadecanoic acid	Stearic acid		116	8.015
Propyl formate			117	9.073
Butyl formate			118	9.163
Pentyl formate	n-Amyl formate		119	9.159
Hexyl formate			120	9.161

أسم النكهة	أسماء أخرى	قيود الاستخدام	JECFA No.	FL No.
Heptyl formate			121	9.074
Octyl formate			122	9.075
Hex-3(cis)-enyl formate	cis-3-Hexenyl formate		123	9.24
Isobutyl formate			124	9.164
Methyl acetate			125	9.023
Propyl acetate			126	9.002
Butyl acetate			127	9.004
Hexyl acetate			128	9.006
Heptyl acetate			129	9.022
Octyl acetate			130	9.007
Nonyl acetate			131	9.008
Decyl acetate			132	9.009
Dodecyl acetate	Lauryl acetate		133	9.01
Hex-3(cis)-enyl acetate	cis-3-Hexenyl acetate		134	9.197
Hept-3(trans)-enyl acetate	trans-3-Heptenyl acetate		135	9.275
Undec-10-enyl acetate	10-Undecen-1-yl acetate		136	9.214
Isobutyl acetate			137	9.005
2-Methylbutyl acetate			138	9.286
Acetone			139	7.05
2-Ethylbutyl acetate			140	9.025
Methyl propionate			141	9.134
Propyl propionate			142	9.122
Butyl propionate			143	9.124
Hexyl propionate			144	9.139
Octyl propionate			145	9.126
Decyl propionate			146	9.127

أسم النكهة	أسماء أخرى	قيود الاستخدام	JECFA No.	FL No.
cis-3 and trans-2 Hexenyl propionate			147	
Isobutyl propionate			148	9.125
Methyl butyrate			149	9.038
Propyl butyrate			150	9.04
Butyl butyrate			151	9.042
Pentyl butyrate	n-Amyl butyrate		152	9.044
Hexyl butyrate			153	9.045
Heptyl butyrate			154	9.166
Octyl butyrate			155	9.046
Decyl butyrate			156	9.047
Hex-3-enyl butyrate	cis-3-Hexenyl butyrate		157	9.27
Isobutyl butyrate			158	9.043
Methyl valerate			159	9.182
Butyl valerate			160	9.148
Propyl hexanoate			161	9.061
Butyl hexanoate			162	9.063
Pentyl hexanoate	n-Amyl hexanoate		163	9.065
Hexyl hexanoate			164	9.066
Hex-3-enyl hexanoate	cis-3-Hexenyl hexanoate		165	9.271
Isobutyl hexanoate			166	9.064
Methyl heptanoate			167	9.096
Propyl heptanoate			168	9.095
Butyl heptanoate			169	9.091
Pentyl heptanoate	n-Amyl heptanoate		170	9.098
Octyl heptanoate			171	9.094

أسم النكهة	أسماء أخرى	قيود الاستخدام	JECFA No.	FL No.
Isobutyl heptanoate			172	9.092
Methyl octanoate			173	9.117
Pentyl octanoate	n-Amyloctanoate		174	9.112
Hexyl octanoate			175	9.113
Heptyl octanoate			176	9.118
Octyl octanoate			177	9.114
Nonyl octanoate			178	9.115
Methyl nonanoate			179	9.108
Methyl dodecanoate	Methyl laurate		180	9.101
Butyl dodecanoate	Butyl laurate		181	9.1
3-Methylbutyl dodecanoate	Isoamyl laurate		182	9.103
Methyl tetradecanoate	Methyl myristate		183	9.106
Butyl octadecanoate	Butyl stearate		184	9.246
Methyl isobutyrate			185	9.412
Ethyl isobutyrate			186	9.413
Propyl isobutyrate			187	9.414
Butyl isobutyrate			188	9.416
Hexyl isobutyrate			189	9.478
Heptyl isobutyrate			190	9.42
trans-3-Heptenyl isobutyrate	trans-3-Heptenyl 2-methylpropanoate		191	9.528
Octyl isobutyrate			192	9.473
Dodecyl isobutyrate			193	9.523
Isobutyl isobutyrate			194	9.417
Methyl isovalerate			195	9.462
Ethyl isovalerate			196	9.447

أسم النكهة	أسماء أخرى	قيود الاستخدام	JECFA No.	FL No.
Propyl isovalerate			197	9.448
Butyl isovalerate			198	9.449
Hexyl isovalerate	Hexyl 3-methylbutanoate		199	9.529
Octyl isovalerate			200	9.451
Nonyl isovalerate			201	9.452
Hex-3-enyl isovalerate			202	9.505
Isobutyl isovalerate	2-Methylpropyl 3-methylbutyrate		203	9.472
2-Methylbutyl isovalerate	2-Methylbutyl 3-methylbutanoate		204	9.531
Methyl 2-methylbutyrate			205	9.483
Ethyl 2-methylbutyrate			206	9.409
Butyl 2-methylbutyrate	n-Butyl 2-methylbutyrate		207	9.519
Hexyl 2-methylbutyrate			208	9.507
Octyl 2-methylbutyrate			209	9.537
Isopropyl 2-methylbutyrate			210	9.547
Hex-3-enyl 2-methylbutyrate	3-Hexenyl 2-methylbutanoate		211	9.506
2-Methylbutyl 2-methylbutyrate			212	9.516
Methyl 2-methylvalerate			213	9.549
Ethyl 2-methylvalerate			214	9.526
Ethyl 3-methylvalerate			215	9.541
Methyl 4-methylvalerate			216	9.432
1-Methoxy-4-(prop-1(trans)-enyl)benzene	trans-Anethole		217	4.01
Citric acid			218	



أسم النكهة	أسماء أخرى	قيود الاستخدام	JECFA No.	FL No.
Butyro-1,4-lactone	4-Hydroxybutyric acid lactone		219	10.006
Pentano-1,4-lactone	gamma-Valerolactone		220	10.013
5-Methylfuran-2(3H)-one	4-Hydroxy-3-pentenoic acid lactone		221	10.012
5-Ethyl-3-hydroxy-4-methylfuran-2(5H)-one	5-Ethyl-3-hydroxy-4-methyl-2(5H)-furanone		222	10.023
Hexano-1,4-lactone	gamma-Hexalactone		223	10.021
Hexano-1,5-lactone	delta-Hexalactone		224	10.01
Heptano-1,4-lactone	gamma-Heptalactone		225	10.02
Octano-1,4-lactone	gamma-Octalactone		226	10.022
4-Butyloctano-1,4-lactone	4,4-Dibutyl-gamma-butyrolactone		227	10.018
Octano-1,5-lactone	delta-Octalactone		228	10.015
Nonano-1,4-lactone	gamma-Nonalactone		229	10.001
Nonano-1,5-lactone	Hydroxynonanoic acid delta-lactone		230	10.014
Decano-1,4-lactone	gamma-Decalactone		231	10.017
Decano-1,5-lactone	delta-Decalactone		232	10.007
Undecano-1,4-lactone	gamma-Undecalactone		233	10.002
Undecano-1,5-lactone	5-Hydroxyundecanoic acid lactone		234	10.011
Dodecano-1,4-lactone	'gamma-Dodecalactone		235	10.019
Dodecano-1,5-lactone	delta-Dodecalactone		236	10.008
3,7-Dimethyloctano-1,6-lactone	6-Hydroxy-3,7-dimethyloctanoic acid lactone		237	10.027
Tetradecano-1,5-lactone	delta-Tetradecalactone		238	10.016

أسم النكهة	أسماء أخرى	قيود الاستخدام	JECFA No.	FL No.
Pentadecano-1,15-lactone	omega-Pentadecalactone		239	10.004
Hexadec-6-eno-1,16-lactone	omega-6-Hexadecenlactone		240	10.003
Decano-1,6-lactone	epsilon-Decalactone		241	10.029
Dodecano-1,6-lactone	epsilon-Dodecalactone		242	10.028
3-Hydroxy-4,5-dimethylfuran-2(5H)-one	4,5-Dimethyl-3-hydroxy-2,5-dihydrofuran-2-one		243	10.03
3-Heptyldihydro-5-methyl-2(3H)-furanone			244	10.026
6-Pentyl-2H-pyran-2-one	5-Hydroxy-2,4-decadienoic acid delta-lactone		245	10.031
5-Hydroxy-2-decenoic acid delta-lactone			246	10.037
Dec-7-eno-1,5-lactone	5-Hydroxy-7-decenoic acid delta-lactone		247	10.033
Undec-8-eno-1,5-lactone	5-Hydroxy-8-undecenoic acid delta-lactone		248	10.035
Dodec-6-eno-1,4-lactone	cis-4-Hydroxy-6-dodecenoic acid lactone		249	10.009
5-Hexyl-5-methyldihydrofuran-2(3H)-one	gamma-Methyldecalactone		250	10.051
2-Methylpropan-1-ol	Isobutyl alcohol		251	2.001
2-Methylpropanal	Isobutyraldehyde		252	5.004
2-Methylpropionic acid	Isobutyric acid		253	8.006
2-Methylbutyraldehyde			254	5.049
2-Methylbutyric acid			255	8.046

أسم النكهة	أسماء أخرى	قيود الاستخدام	JECFA No.	FL No.
2-Ethylbutanal	2-Ethylbutyraldehyde		256	5.007
2-Ethylbutyric acid			257	8.045
3-Methylbutanal	3-Methylbutyraldehyde		258	5.006
3-Methylbutyric acid	Isovaleric acid		259	8.008
2-Methylpentanal			260	5.069
2-Methylvaleric acid			261	8.031
3-Methylvaleric acid	3-Methylpentanoic acid		262	8.056
3-Methylpentan-1-ol	3-Methyl-1-pentanol		263	2.115
4-Methylvaleric acid			264	8.057
2-Methylhexanoic acid			265	8.035
5-Methylhexanoic acid			266	8.061
2-Ethylhexan-1-ol	2-Ethyl-1-hexanol		267	2.082
3,5,5-Trimethylhexan-1-ol	3,5,5-Trimethyl-1-hexanol		268	2.055
3,5,5-Trimethylhexanal			269	5.116
2-Methyloctanal			270	5.024
4-Methyloctanoic acid			271	8.063
3,7-Dimethyloctan-1-ol	3,7-Dimethyl-1-octanol		272	2.026
2,6-Dimethyloctanal			273	5.023
4-Methylnonanoic acid			274	8.062
2-Methylundecanal			275	5.077
Isopropanol	Isopropyl alcohol		277	02.079
Butan-2-one	2-Butanone		278	7.053
Pentan-2-one	2-Pentanone		279	7.054
Pentan-2-ol	2-Pentanol		280	2.088
Hexan-3-one			281	7.096
Hexan-3-ol	3-Hexanol		282	2.089

أسم النكهة	أسماء أخرى	قيود الاستخدام	JECFA No.	FL No.
Heptan-2-one	2-Heptanone		283	7.002
Heptan-2-ol	2-Heptanol		284	2.045
Heptan-3-one	3-Heptanone		285	7.003
Heptan-3-ol			286	2.044
Heptan-4-one			287	7.058
Octan-2-one			288	7.019
Octan-2-ol			289	2.022
Octan-3-one			290	7.062
Octan-3-ol	3-Octanol		291	2.098
Nonan-2-one	2-Nonanone		292	7.02
Nonan-2-ol	2-Nonanol		293	2.087
Nonan-3-one	3-Nonanone		294	7.113
Decan-3-ol	3-Decanol		295	2.103
Undecan-2-one	2-Undecanone		296	7.016
Undecan-2-ol	2-Undecanol		297	2.086
Tridecan-2-one	2-Tridecanone		298	7.103
Pentadecan-2-one	2-Pentadecanone		299	7.137
3-Methylbutan-2-ol	3-Methyl-2-butanol		300	2.111
4-Methylpentan-2-one	4-Methyl-2-pentanone		301	7.017
2,6-Dimethylheptan-4-one	2,6-Dimethyl-4-heptanone		302	7.122
2,6-Dimethylheptan-4-ol	2,6-Dimethyl-4-heptanol		303	2.081
Isopropyl formate			304	9.165
Isopropyl acetate			305	9.003
Isopropyl propionate			306	9.123
Isopropyl butyrate			307	9.041
Isopropyl hexanoate			308	9.062

أسم النكهة	أسماء أخرى	قيود الاستخدام	JECFA No.	FL No.
Isopropyl isobutyrate			309	9.415
Isopropyl isovalerate			310	9.45
Isopropyl tetradecanoate	Isopropyl myristate Isopropyl tiglate		311	9.105
Isopropyl 2-methylcrotonate			312	9.513
3-Octyl acetate			313	9.254
Pent-4-enoic acid	4-Pentenoic acid		314	8.048
Hex-3(cis)-en-1-ol	cis-3-Hexen-1-ol		315	2.056
Hex-3-en-1-ol			315	2.159
Hex-3(cis)-enal	cis-3-Hexenal		316	5.075
Hex-3-enoic acid	3-Hexenoic acid		317	8.050
Hex-4-en-1-ol	4-Hexen-1-ol		318	2.074
Hex-4-enal	cis-4-Hexenal		319	5.113
Hept-4-enal	cis-4-Heptenal		320	5.085
Oct-3-en-1-ol	cis-3-Octen-1-ol		321	2.094
Oct-5(cis)-en-1-ol	cis-5-Octen-1-ol		322	2.113
Oct-5(cis)-enal	cis-5-Octenal		323	5.128
Non-6-en-1-ol	cis-6-Nonen-1-ol		324	2.093
Non-6(cis)-enal	cis-6-Nonenal		325	5.059
4-Decenal			326	5.096
Dec-(5- and 6)-enoic acid	(5- and 6)-Decenoic acid (mixture)		327	8.068
Dec-9-enoic acid	9-Decenoic acid		328	8.065
Undec-9-enal	9-Undecenal		329	5.036
Undec-10-enal	10-Undecenal		330	5.035
Undec-10-enoic acid	10-Undecenoic acid		331	8.039

أسم النكهة	أسماء أخرى	قيود الاستخدام	JECFA No.	FL No.
Octadeca-9,12-dienoic acid	Linoleic and linolenic acid (mixture)		332	8.041
Oleic acid	Oleic acid		333	8.013
Methyl hex-3-enoate	Methyl 3-hexenoate		334	9.267
Ethyl hex-3-enoate	Ethyl 3-hexenoate		335	9.191
Hex-3-enyl hex-3-enoate	cis-3-Hexenyl cis-3-hexenoate		336	9.291
Methyl oct-4(cis)-enoate	Methyl cis-4-octenoate		337	9.268
Ethyl oct-4-enoate	Ethyl cis-4-octenoate		338	9.265
Ethyl octa-4,7-dienoate	cis-4,7-Ethyl octadienoate		339	9.290
Methyl non-3-enoate	Methyl 3-nonenoate		340	9.298
Ethyl dec-4-enoate	Ethyl trans-4-decenoate		341	9.284
Methyl undec-9-enoate	Methyl 9-undecenoate		342	9.236
Ethyl undec-10-enoate	Ethyl 10-undecenoate		343	9.237
Butyl undec-10-enoate	Butyl 10-undecenoate		344	9.238
Ethyl oleate	Ethyl oleate		345	9.192
Mixture of methyl linoleate and methyl linolenate	Methyl linoleate and methyl linolenate (mixture)		346	9.645
2-Methylpent-3-enoic acid	Methyl-3-pentenoic acid		347	8.058
2,6-Dimethylhept-6-en-1-ol	2,6-Dimethyl-6-hepten-1-ol		348	2.110
2,6-Dimethylhept-5-enal	2,6-Dimethyl-5-heptenal		349	5.074
Ethyl 2-methylpent-3-enoate	Ethyl 2-methyl-3-pentenoate		350	9.524
Ethyl 2-methylpent-4-enoate	Ethyl 2-methyl-4-pentenoate		351	9.527
Hexyl-2-methylpent-(3 and 4)-enoate	Hexyl 2-methylpent-(3 and 4)-enoate (mixture)		352	9.546
Ethyl 2-methylpenta-3,4-dienoate	Ethyl 2-methyl-3,4-pentadienoate		353	9.540

أسم النكهة	أسماء أخرى	قيود الاستخدام	JECFA No.	FL No.
Methyl citronellate	Methyl 3,7-dimethyl-6-octenoate		354	9.517
2-Methylpent-4-enoic acid	2-Methyl-4-pentenoic acid		355	8.059
Linalool			356	2.013
3,7-Dimethyloctan-3-ol	Tetrahydrolinalool		357	2.028
Linalyl formate			358	9.080
Linalyl acetate			359	9.013
Linalyl propionate			360	9.130
Linalyl butyrate			361	9.050
Linalyl isobutyrate			362	9.423
Linalyl isovalerate			363	9.454
Linalyl hexanoate			364	9.068
Linalyl octanoate			365	9.116
alpha-Terpineol			366	2.014
alpha-Terpinyl formate			367	9.081
alpha-Terpinyl acetate			368	9.015
Terpineol acetate			368	9.830
Terpinyl propionate			369	9.142
Terpinyl butyrate	Terpinyl butyrate		370	9.052
Terpinyl 2-methylpropionate	Terpinyl isobutyrate		371	9.425
Terpinyl isovalerate			372	9.461
1-Terpinenol	p-menth-3-en-1-ol		373	2.096
beta-Terpineol	p-menth-8-en-1-ol		374	2.097
p-Menthan-2-one	p-Menthan-2-one		375	7.092
p-Menthan-2-ol	p-Menthan-2-ol		376	2.071
Dihydrocarvone			377	7.128

أسم النكهة	أسماء أخرى	قيود الاستخدام	JECFA No.	FL No.
Dihydrocarveol			378	2.061
Dihydrocarvyl acetate			379	9.216
Carvone			380	7.012
d-Carvone			380.1	7.146
l-Carvone			380.2	7.147
Carveol			381	2.062
Carvyl acetate			382	9.215
Carvyl propionate			383	9.143
beta-Damascone			384	7.083
alpha-Damascone			385	7.134
delta-Damascone			386	7.130
beta-Damascenone	Damascenone		387	7.108
alpha-Ionone			388	7.007
beta-Ionone			389	7.008
gamma-Ionone	Ionone		390	7.091
4-(2,6,6-Trimethyl-2-cyclohexenyl)but-3-en-2-ol	alpha-Ionol		391	2.105
4-(2,2,6-Trimethyl-1-cyclohexenyl)but-3-en-2-ol	beta-Ionol		392	2.106
Dihydro-alpha-ionone			393	7.132
Dihydro-beta-ionone			394	7.131
Dihydro-beta-ionol			395	2.107
3,4-Dehydrodihydro-beta-ionone	Dehydrodihydroionone		396	7.115
Dehydrodihydroionol			397	2.092
Methyl-alpha-ionone			398	7.009



أسم النكهة	أسماء أخرى	قيود الاستخدام	JECFA No.	FL No.
Methyl-beta- ionone			399	7.010
Methyl-delta-ionone			400	7.088
Allyl alpha-ionone			401	7.061
1,4-Dimethyl-4-acetyl-1-cyclohexene			402	
4-(2,5,6,6-Tetramethyl-2-cyclohexenyl)-3-buten-2-one	alpha-Irone		403	7.011
alpha-Isomethyl ionone	alpha-Iso-methylionone		404	7.036
3-Hydroxybutan-2-one	Acetoin		405	7.051
sec-Butan-3-onyl acetate	2-Acetoxy-3-butanone		406	9.186
sec-Butan-3-onyl butyrate	Butan-3-one-2-yl butanoate		407	9.264
Diacetyl			408	7.052
3-Hydroxypentan-2-one	3-Hydroxy-2-pentanone		409	7.125
Pentan-2,3-dione	2,3-Pentanedione		410	7.060
4-Methylpentan-2,3-dione	4-Methyl-2,3-pentanedione		411	7.063
Hexan-2,3-dione	2,3-Hexandione		412	7.018
Hexan-3,4-dione	3,4-Hexanedione		413	7.077
5-Methylhexan-2,3-dione	5-Methyl-2,3-hexandione		414	7.093
Heptan-2,3-dione	2,3-Heptanedione		415	7.064
5-Hydroxyoctan-4-one	5-Hydroxy-4-octanone		416	7.065
Undeca-2,3-dione	2,3-Undecadione		417	7.021
3-Methylcyclopentan-1,2-dione	Methylcyclopentenolone		418	7.056
3-Ethylcyclopentan-1,2-dione	Ethylcyclo-pentenolone		419	7.057
3,4-Dimethylcyclopentan-	3,4-Dimethyl-1,2-		420	7.075

أسم النكهة	أسماء أخرى	قيود الاستخدام	JECFA No.	FL No.
1,2-dione	cyclopentandione			
3,5-Dimethylcyclopentan-1,2-dione	3,5-Dimethyl-1,2-cyclopentandione		421	7.076
3-Ethyl-2-hydroxy-4-methylcyclopent-2-en-1-one	3-Ethyl-2-hydroxy-4-methylcyclopent-2-en-1-one		422	7.117
5-Ethyl-2-hydroxy-3-methylcyclopent-2-en-1-one			423	7.118
2-Hydroxycyclohex-2-en-1-one	2-Hydroxy-2-cyclohexen-1-one		424	7.119
3-Methylcyclohexan-1,2-dione	1-Methyl-2,3-cyclohexanedione		425	7.08
2-Hydroxy-3,5,5-trimethylcyclohex-2-en-1-one	2-Hydroxy-3,5,5-trimethyl-2-cyclohexen-1-one		426	7.120
Menthol			427	2.015
d-Neomenthol	d-neo-Menthol		428	2.063
trans-Menthone	Menthone		429	7.176
d,l-Isomenthone			430	7.078
Menthyl acetate			431	9.016
Menthyl isovalerate			432	9.455
l-Menthyl lactate			433	9.551
p-Menth-1-en-3-ol			434	2.083
p-Menth-1-en-3-one	Piperitone		435	7.175
3-Methyloctano-1,4-lactone	4-Hydroxy-3-methyloctanoic acid gamma-lactone		437	10.050
Dodec-2-eno-1,5-lactone	5-Hydroxy-2-dodecenoic acid		438	10.040

أسم النكهة	أسماء أخرى	قيود الاستخدام	JECFA No.	FL No.
	delta-lactone			
4-Terpinenol	4-Carvomenthol		439	2.072
2-Ethylfenchol	2-Ethyl-1,3,3-trimethyl-2-norbornanol		440	2.095
Sabinene hydrate	4-Thujanol		441	2.085
Methyl 1-acetoxycyclohexyl ketone			442	
l-Menthol ethylene glycol carbonate			443	9.842
(-)-Menthol 1-and 2-propylene glycol carbonate			444	
l-Menthone-1,2-glycerol ketal	(-)-Menthone 1,2-glycerol ketal		445	6.133
DL-Menthone-1,2-glycerol ketal	(±)-Menthone-1,2-glycerol ketal		446	6.120
mono-Menth-3-yl succinate	mono-Menthyl succinate		447	9.616
Oct-3-yl 2-methylcrotonate			448	9.539
Furfural			450	13.018
Furfuryl alcohol			451	13.019
Dimethyl sulfide	Methyl sulfide		452	12.006
Methyl ethyl sulfide			453	12.154
Diethyl sulfide	Diethyl sulfide		454	12.113
Dibutyl sulfide	Butyl sulfide		455	12.007
1,4-Dithiane			456	15.066
But-1-enyl methyl sulphide	(1-Buten-1-yl) methyl sulphide		457	12.211
Diallyl sulfide	Allyl sulfide		458	12.088

أسم النكهة	أسماء أخرى	قيود الاستخدام	JECFA No.	FL No.
Methyl phenyl sulfide	Methyl phenyl sulfide		459	12.162
Benzyl methyl sulfide			460	12.077
3-(Methylthio)propan-1-ol	3-(Methylthio)propanol		461	12.062
4-(Methylthio)butan-1-ol	4-(Methylthio)butanol		462	12.078
3-(Methylthio)hexan-1-ol	3-(Methylthio)-1-hexanol		463	12.063
2-Methyl-4-propyl-1,3-oxathiane			464	16.03
2-Methylthioacetaldehyde			465	12.04
3-(Methylthio)propionaldehyde			466	12.001
3-(Methylthio)butanal			467	12.056
4-(Methylthio)butanal			468	12.061
3-Methylthiohexanal			469	12.279
2-(methylthiomethyl)but-2-enal	2-(Methylthiomethyl)-2-butenal		470	12.079
2,8-dithianon-4-en-4-carboxaldehyde			471	12.065
Methyl 3-(methylthio)propionate			472	12.002
Methylthiomethyl butyrate			473	12.187
Methyl 4-(methylthio)butyrate			474	12.06
Ethyl 2-(methylthio)acetate			475	12.122
Ethyl 3-(methylthio)propionate			476	12.053

أسم النكهة	أسماء أخرى	قيود الاستخدام	JECFA No.	FL No.
Ethyl 4-(methylthio)butyrate			477	12.084
3-(Methylthio)propyl acetate			478	12.273
Methylthiomethyl hexanoate			479	12.188
Ethyl 3-(methylthio)butyrate			480	12.089
3-(Methylthio)hexyl acetate			481	12.236
S-Methyl acetothioate	S-Methyl thioacetate		482	12.149
S-Ethyl acetothioate	Ethyl thioacetate		483	12.018
S-Methyl butanethioate	Methyl thiobutyrate		484	12.032
Propyl thioacetate			485	12.059
Methyl 2-(methylthio)butyrate	S-Methyl 2-methylbutanethiotate		486	12.086
S-Methyl isopentanethioate	3-Methylbutanethioate		487	12.157
S-Methyl 4-methylpentanethioate	S-Methyl 4-methylpentanethioate		488	12.148
S-Methyl hexanethioate	S-Methyl hexanethioate		489	12.156
Allyl thiopropionate			490	12.101
S-Prenyl thioacetate	Prenyl thioacetate		491	12.195
Methylthio 2-(acetyloxy)propionate			492	12.203
Methylthio-2-(propionyloxy)propionate			493	12.227
3-(Acetylmercapto)hexyl acetate			494	
1-Methylthio-2-propanone			495	12.244
1-(Methylthio)butan-2-one	1-(Methylthio)-2-butanone		496	12.041
4-(Methylthio)butan-2-one	4-(Methylthio)-2-butanone		497	12.057

أسم النكهة	أسماء أخرى	قيود الاستخدام	JECFA No.	FL No.
4,5-Dihydrothiophen-3(2H)-one	4,5-Dihydro-3(2H)-thiophenone		498	15.012
4,5-Dihydro-2-methylthiophene-3(2H)-one	2-Methyltetrahydrothiophen-3-one		499	15.023
4-(Methylthio)-4-methylpentan-2-one	4-(Methylthio)-4-methyl-2-pentanone		500	12.058
4-(Methylthio)-2-oxobutyric acid	Sodium 4-(methylthio)-2-oxobutanoate		501	12.176
Di-(3-oxobutyl) sulfide	Di(butan-3-one-1-yl) sulfide		502	12.052
2-(Methylthio)phenol	o-(Methylthio)phenol		503	12.042
S-Methyl benzothioate			504	12.15
2-(Methylthiomethyl)-3-phenylpropenal			505	12.087
8-Acetylthio-p-menthanone-3	Menthone-8-thioacetate		506	12.201
Methylsulfinylmethane			507	12.175
Methanethiol	Methyl mercaptan		508	12.003
1-Propane-1-thiol	Propanethiol		509	12.071
Propane-2-thiol	2-Propanethiol		510	12.197
Butane-1-thiol	1-Butanethiol		511	12.01
2-Methylpropane-1-thiol	2-Methyl-1-propanethiol		512	12.173
3-Methylbutane-1-thiol	3-Methylbutanethiol		513	12.171
Pentane-2-thiol	2-Pentanethiol		514	12.192
2-Methylbutane-1-thiol	2-Methyl-1-butanethiol		515	12.048
Cyclopentanethiol			516	12.029
3-Methylbutane-2-thiol	3-Methyl-2-butanethiol		517	12.049

أسم النكهة	أسماء أخرى	قيود الاستخدام	JECFA No.	FL No.
Hexane-1-thiol	1-Hexanethiol		518	12.132
2-Ethylhexane-1-thiol	2-Ethylhexanethiol		519	12.128
2-,3- and 10-Mercaptopinane	2-, 3- or 10-Mercaptopinane		520	12.035
Allylthiol	Allyl mercaptan		521	12.004
3-Methylbut-2-ene-1-thiol	Prenyl thiol		522	12.17
p-Menth-1-ene-8-thiol	1-p-Menthene-8-thiol		523	12.085
Thiogeraniol			524	12.064
Thiophenol	Benzenethiol		525	12.08
Phenylmethanethiol	Benzyl mercaptan		526	12.005
2-Phenylethane-1-thiol	Phenethyl mercaptan		527	12.194
2-Methylbenzene-1-thiol	o-Toluenethiol		528	12.027
2-(Ethylthio)phenol			529	12.054
2,6-(Dimethyl)thiophenol			530	12.082
Naphthalene-2-thiol	2-Naphthalenethiol		531	12.033
Ethane-1,2-dithiol	1,2-Ethanedithiol		532	12.066
2,4-Dithiapentane	bis (Methylthio)methane		533	12.118
2-Methyl-1,3-dithiolane			534	15.034
Propane-1,3-dithiol	1,3-Propanedithiol		535	12.076
Propane-1,2-dithiol	1,2-Propanedithiol		536	12.07
Butane-1,2-dithiol	1,2-Butanedithiol		537	12.072
Butane-1,3-dithiol	1,3-Butanedithiol		538	12.073
Butane-2,3-dithiol	2,3-Butanedithiol		539	12.022
Hexane-1,6-dithiol	1,6-Hexanedithiol		540	12.067
Octane-1,8-dithiol	1,8-Octanedithiol		541	12.034
Nonane-1,9-dithiol	1,9-Nonanedithiol		542	12.069
Trithioacetone			543	15.009

أسم النكهة	أسماء أخرى	قيود الاستخدام	JECFA No.	FL No.
3-Mercapto-3-methylbutan-1-ol	3-Mercapto-3-methyl-1-butanol		544	12.137
3-Mercaptohexan-1-ol	3-Mercaptohexanol		545	12.217
3-Mercaptobutan-2-ol	2-Mercapto-3-butanol		546	12.024
3-[(2-Mercapto-1-methylpropyl)thio]butan-2-ol	alpha-Methyl-beta-hydroxypropyl alpha-methyl-beta-mercaptopropyl sulfide		547	12.036
4-Methoxy-2-methylbutane-2-thiol	4-Methoxy-2-methyl-2-butanethiol		548	12.145
3-Mercapto-3-methylbutyl formate			549	12.138
2,5-Dihydroxy-1,4-Dithiane			550	15.134
2-Mercaptopropionic acid			551	12.039
Ethyl 2-mercaptopropionate			552	12.046
Ethyl 3-mercaptopropionate			553	12.0
3-Mercaptohexyl acetate			554	12.234
3-Mercaptohexyl butyrate			555	12.235
3-Mercaptohexyl hexanoate			556	12.251
1-Mercaptopropan-2-one	1-Mercapto-2-propanone		557	12.143
3-Mercaptobutan-2-one	3-Mercapto-2-butanone		558	12.047
4-Mercaptobutan-2-one	2-Keto-4-butanethiol		559	12.055
3-Mercaptopentan-2-one	3-Mercapto-2-pentanone		560	12.031
8-Mercapto-p-menthan-3-one	p-Mentha-8-thiol-3-one		561	12.038
2,5-Dihydroxy-2,5-dimethyl-1,4-dithiane			562	15.006



أسم النكهة	أسماء أخرى	قيود الاستخدام	JECFA No.	FL No.
Sodium 3-mercapto-oxopropionate			563	
Dimethyl disulfide			564	12.026
Methyl propyl disulfide			565	12.019
Dipropyl disulfide			566	12.014
Di-isopropyl disulfide			567	12.109
Allyl methyl disulfide			568	12.037
Methyl prop-1-enyl disulfide	Methyl 1-propenyl disulfide		569	12.075
Prop-1-enyl propyl disulfide	Propenyl propyl disulfide		570	12.044
Methyl-3-methyl-1-butenyl disulphide			571	12.218
Diallyl disulfide	Allyl disulfide		572	12.008
3,5-Dimethyl-1,2,4-trithiolane			573	15.025
3-Methyl-1,2,4-trithiane			574	15.036
Dicyclohexyl disulfide			575	12.028
Methyl phenyl disulfide			576	12.161
Benzyl methyl disulfide	Methyl benzyl disulfide		577	12.068
Diphenyl disulfide	Phenyl disulfide		578	12.043
Dibenzyl disulfide	Benzyl disulfide		579	12.081
2-Methyl-2-(methyldithio)propanal			580	12.168
Ethyl 2-(methyldithio)propionate			581	12.121
Dimethyl trisulfide			582	12.013
Methyl ethyl trisulfide			583	12.155

أسم النكهة	أسماء أخرى	قيود الاستخدام	JECFA No.	FL No.
Methyl propyl trisulfide			584	12.02
Dipropyl trisulfide			585	12.023
Methyl allyl trisulfide	Allyl methyl trisulfide		586	12.045
Diallyl trisulfide			587	12.009
Diallyl polysulfides			588	12.074
2-Oxobutyric acid			589	8.066
Methyl 2-hydroxy-4-methylvalerate			590	9.548
Methyl 2-oxo-3-methylvalerate			591	9.55
Citronellyl oxyacetaldehyde			592	5.079
4,4-Dimethoxybutan-2-one	3-Oxobutanal dimethyl acetal		593	6.038
Ethyl 3-hydroxybutyrate			594	9.522
Ethyl acetoacetate			595	9.402
Butyl acetoacetate			596	9.403
Isobutyl acetoacetate			597	9.404
Isopentyl acetoacetate			598	9.401
Geranyl acetoacetate			599	9.405
Methyl 3-hydroxyhexanoate			600	9.532
Ethyl 3-hydroxyhexanoate			601	9.535
Ethyl 3-oxohexanoate			602	9.542
Ethyl 2,4-dioxohexanoate			603	9.514
3-(Hydroxymethyl)-2-heptanone			604	
1,3-Nonanediol acetate	1,3-nonanediol acetate (mixed esters)		605	9.225

أسم النكهة	أسماء أخرى	قيود الاستخدام	JECFA No.	FL No.
4-Oxovaleric acid	Levulinic acid		606	8.023
Ethyl 4-oxovalerate	Ethyl levulinate		607	9.435
Butyl 4-oxovalerate	Butyl levulinate		608	9.436
Nonane-1,4-diyl diacetate	1,4-Nonanediol diacetate		609	9.28
3,7-Dimethyloctane-1,7-diol	Hydroxycitronellol		610	2.047
3,7-Dimethyl-7-hydroxyoctanal	Hydroxycitronellal		611	5.012
1,1-Dimethoxy-3,7-dimethyloctan-7-ol	Hydroxycitronellal dimethyl acetal		612	6.011
1,1-Diethoxy-3,7-dimethyloctan-7-ol	Hydroxycitronellal diethyl acetal		613	6.01
Diethyl malonate			614	9.49
Butyl ethyl malonate			615	9.441
Dimethyl succinate			616	9.445
Diethyl succinate			617	9.444
Fumaric acid			618	8.025
l-Malic acid			619	8.017
Diethyl malate			620	9.439
Tartaric acid	Tartaric acid (+)-, (-)-, (+/-)-, meso-		621	8.018
Diethyl tartrate			622	9.446
Adipic acid			623	8.026
Diethyl sebacate			624	9.475
Dibutyl sebacate			625	9.474
Ethyl brassylate			626	9.533
Prop-1-ene-1,2,3-	Aconitic acid		627	8.033

أسم النكهة	أسماء أخرى	قيود الاستخدام	JECFA No.	FL No.
tricarboxylic acid				
Ethyl aconitate	Ethyl aconitate (mixed esters)		628	9.51
Triethyl citrate			629	9.512
Tributyl acetylcitrate			630	9.511
3-Methyl-2-oxobutyric acid			631	8.051
3-Methyl-2-oxovaleric acid	3-Methyl-2-oxopentanoic acid		632	8.093
4-Methyl-2-oxovaleric acid			633	8.052
2-Oxoglutaric acid			634	8.037
3-Hydroxy-2-oxopropionic acid			635	8.086
3-Phenylpropan-1-ol	3-Phenyl-1-propanol		636	2.031
3-Phenylpropyl formate			637	9.084
3-Phenylpropyl acetate			638	9.032
3-Phenylpropyl propionate			639	9.138
3-Phenylpropyl isobutyrate			640	9.428
3-Phenylpropyl isovalerate			641	9.467
3-Phenylpropyl hexanoate			642	9.071
Methyl 3-phenylpropionate			643	9.746
Ethyl 3-phenylpropionate			644	9.747
3-Phenylpropanal	3-Phenylpropionaldehyde		645	5.08
3-Phenylpropionic acid			646	8.032
Cinnamyl alcohol			647	2.017
Cinnamaldehyde ethylene glycol acetal			648	6.014
Cinnamyl formate			649	9.085
Cinnamyl acetate			650	9.018

أسم النكهة	أسماء أخرى	قيود الاستخدام	JECFA No.	FL No.
Cinnamyl propionate			651	9.133
Cinnamyl butyrate			652	9.053
Cinnamyl isobutyrate			653	9.47
Cinnamyl isovalerate			654	9.459
Cinnamyl phenylacetate			655	9.708
Cinnamaldehyde			656	5.014
Cinnamic acid			657	8.022
Methyl cinnamate			658	9.74
Ethyl cinnamate			659	9.73
Propyl cinnamate			660	9.731
Isopropyl cinnamate			661	9.732
Butyl cinnamate			663	9.733
Isobutyl cinnamate			664	9.734
Isopentyl cinnamate	Isoamyl cinnamate		665	9.742
Heptyl cinnamate			666	9.782
Cyclohexyl cinnamate			667	9.744
Linalyl cinnamate			668	9.736
(S)-Terpinyl cinnamate	Terpinyl cinnamate		669	9.737
Benzyl cinnamate			670	9.738
Phenethyl cinnamate			671	9.743
3-Phenylpropyl cinnamate			672	9.745
Cinnamyl cinnamate			673	9.739
alpha-Pentylcinnamyl alcohol			674	2.03
5-Phenylpentan-1-ol	5-Phenylpentanol		675	2.051
alpha-Pentylcinnamyl			676	9.09

أسم النكهة	أسماء أخرى	قيود الاستخدام	JECFA No.	FL No.
formate				
alpha-Pentylcinnamyl acetate			677	9.026
alpha-Pentylcinnamyl isovalerate			678	9.468
3-Phenylpent-4-enal	3-Phenyl-4-pentenal		679	5.103
3-(4-Isopropylphenyl)propionaldehyde	3-(p-Isopropylphenyl)propionaldehyde		680	5.094
alpha-Pentylcinnamaldehyde dimethyl acetal	alpha-Amylcinnamaldehyde dimethyl acetal		681	6.013
p-Methylcinnamaldehyde			682	5.122
alpha-Methylcinnamaldehyde			683	5.05
alpha-Butylcinnamaldehyde			684	5.039
alpha-Pentylcinnamaldehyde	alpha-Amylcinnamaldehyde		685	5.04
alpha-Hexylcinnamaldehyde			686	5.041
4-Methoxycinnamaldehyde	p-Methoxycinnamaldehyde		687	5.118
2-Methoxycinnamaldehyde			688	5.048
3-(4-Methoxyphenyl)-2-methylprop-2-enal	p-methoxy-alpha-methyl-cinnamaldehyde		689	5.051
Phenol			690	4.041
2-Methylphenol	o-cresol		691	4.027
3-Methylphenol	m-cresol		692	4.026
4-Methylphenol	p-cresol		693	4.028
4-Ethylphenol	p-Ethylphenol		694	4.022

أسم النكهة	أسماء أخرى	قيود الاستخدام	JECFA No.	FL No.
2-Propylphenol	o-Propylphenol		695	4.046
4-Propylphenol	p-Propylphenol		696	4.05
2-Isopropylphenol			697	4.044
o-Tolyl acetate			698	9.228
p-Tolyl acetate			699	9.036
o-Tolyl isobutyrate			700	9.48
p-Tolyl isobutyrate			701	9.429
4-Methylphenyl isovalerate	p-Tolyl 3-methylbutyrate		702	9.518
p-Tolyl octanoate			703	9.301
p-Tolyl dodecanoate	p-Tolyl laurate		704	9.102
p-Tolyl phenylacetate			705	9.709
2,5-Dimethylphenol	2,5-Xylenol		706	4.019
2,6-Dimethylphenol	2,6-Xylenol		707	4.042
3,4-Dimethylphenol	Xylenol		708	4.048
Thymol			709	4.006
Carvacrol			710	4.031
4-Vinylphenol	p-Vinylphenol		711	4.057
Benzene-1,3-diol	Resorcinol		712	4.047
2-Methoxyphenol	Guaiacol		713	4.005
2-(Ethoxymethyl)phenol	o-(Ethoxymethyl)phenol		714	4.045
2-Methoxy-4-methylphenol			715	4.007
4-Ethylguaiacol			716	4.008
2-Methoxy-4-propylphenol			717	4.049
2-Methoxyphenyl acetate			718	9.174
Guaiacyl phenylacetate			719	9.711
4-Ethoxyphenol			720	4.037

أسم النكهة	أسماء أخرى	قيود الاستخدام	JECFA No.	FL No.
2,6-Dimethoxyphenol			721	4.036
4-Methyl-2,6-dimethoxyphenol			722	4.053
4-Ethyl-2,6-dimethoxyphenol			723	4.052
2,6-Dimethoxy-4-propylphenol			724	4.056
2-Methoxy-4-vinylphenol			725	4.009
4-Allyl-2,6-dimethoxyphenol			726	4.051
2-Hydroxyacetophenone			727	7.124
4-(p-Hydroxyphenyl)butan-2-one			728	7.055
2,4-Dihydroxyacetophenone			729	7.135
Vanillyl acetone			730	7.005
4-(4-Acetoxyphenyl)butan-2-one			731	9.288
Vanillylidene acetone			732	7.046
4-(1,1-Dimethylethyl)phenol			733	4.064
Phenyl acetate			734	9.688
Phenyl salicylate			736	9.689
2,3,6-Trimethylphenol			737	4.085
Furfuryl acetate			739	13.128
Furfuryl propionate			740	13.062
Furfuryl valerate			741	13.068
Furfuryl octanoate			742	13.067



أسم النكهة	أسماء أخرى	قيود الاستخدام	JECFA No.	FL No.
Furfuryl isovalerate			743	13.057
5-Methylfurfural			745	13.001
Methyl 2-furoate			746	13.002
Propyl 2-furoate			747	13.003
Pentyl 2-furoate	Amyl 2-furoate		748	13.025
Hexyl 2-furoate			749	13.005
Octyl 2-furoate			750	13.073
2-Benzofurancarboxaldehyde			751	13.031
2-Phenyl-3-carbethoxyfuran			752	13.038
Pulegone			753	
2R,5S-isopulegone	Isopulegone		754	7.067
1R,2S,5R-isopulegol	Isopulegol		755	2.067
1R,2S,5R-isopulegyl acetate	Isopulegyl acetate		756	9.219
p-Mentha-1,4(8)-dien-3-one			757	7.127
Menthofuran			758	
Furfuryl butyrate			759	13.13
Cinnamyl benzoate			760	9.78
2-Methylpyrazine			761	14.027
Ethylpyrazine	2-Ethylpyrazine		762	14.022
Propylpyrazine	2-Propylpyrazine		763	14.142
Isopropylpyrazine	2-Isopropylpyrazine		764	14.123
2,3-Dimethylpyrazine			765	14.05
2,5-Dimethylpyrazine			766	14.02
2,6-Dimethylpyrazine			767	14.021
2-Ethyl-3-methylpyrazine			768	14.006

أسم النكهة	أسماء أخرى	قيود الاستخدام	JECFA No.	FL No.
2-Ethyl-6-methylpyrazine			769	14.114
2-Ethyl-5-methylpyrazine			770	14.017
2,3-Diethylpyrazine			771	14.005
2-Isopropyl-5-methylpyrazine	2-Methyl-5-isopropylpyrazine		772	14.026
2-Isobutyl-3-methylpyrazine			773	14.044
2,3,5-Trimethylpyrazine			774	14.019
3,(5- or 6)-Dimethyl-2-ethylpyrazine	2-ethyl-3,(5- or 6)-dimethylpyrazine		775	14.1
2-Ethyl-3,5-dimethylpyrazine			776	14.024
2,3-Diethyl-5-methylpyrazine			777	14.056
2,5-Diethyl-3-methylpyrazine			778	14.096
3,5-Diethyl-2-methylpyrazine			779	14.095
2,3,5,6-Tetramethylpyrazine			780	14.018
6,7-Dihydro-5-methyl-5H-cyclopentapyrazine	5-methyl-6,7-dihydro-5H-cyclopentapyrazine		781	14.037
6,7-Dihydro-2,3-dimethyl-5H-cyclopentapyrazine			782	14.098
Cyclohexylmethylpyrazine			783	14.069
Acetylpyrazine	2-Acetylpyrazine		784	14.032
2-Acetyl-3-ethylpyrazine			785	14.049
2-Acetyl-3,5-	2-Acetyl-3,5 or 6-		786	14.055

أسم النكهة	أسماء أخرى	قيود الاستخدام	JECFA No.	FL No.
dimethylpyrazine	dimethylpyrazine			
Methoxypyrazine			787	14.054
2,5 or 6-Methoxy-3-methylpyrazine	2-Methoxy-(3, 5 or 6)-methylpyrazine		788	14.025
2-Ethyl-(3,5 or 6)-methoxypyrazine (85%) and 2-Methyl-(3,5 or 6)-methoxypyrazine (13%)			789	14.077
2-Isopropyl-(3,5 or 6)-methoxypyrazine	2-Methoxy-(3,5 or 6)-isopropylpyrazine		790	14.121
2-(sec-Butyl)-3-methoxypyrazine	2-Methoxy-3-(1-methylpropyl)pyrazine		791	14.062
2-Isobutyl-3-methoxypyrazine			792	14.043
2-Methyl-3-ethoxypyrazine	2-Methyl-3,5 or 6-ethoxypyrazine		793	14.067
Mercaptomethylpyrazine	2-Mercaptomethylpyrazine		794	14.053
2-Pyrazinyl ethanethiol	2-Pyrazinylethanethiol		795	14.031
Pyrazinyl methyl sulfide			796	14.034
2-Methyl-3,5 or 6-methylthiopyrazine	3,5 or 6-methyl-2-methylthiopyrazine		797	14.035
5-Methylquinoxaline			798	14.028
1-Phenylethan-1-ol	alpha-methylbenzyl alcohol		799	2.064
1-Phenethyl formate	alpha-Phenethyl formate		800	9.179
1-Phenethyl acetate	alpha-Phenethyl acetate		801	9.178
1-Phenethyl propionate	alpha-Methylbenzyl propionate		802	9.144

أسم النكهة	أسماء أخرى	قيود الاستخدام	JECFA No.	FL No.
1-Phenethyl butyrate	alpha-Methylbenzyl butyrate		803	9.231
1-Phenethyl isobutyrate	alpha-Methylbenzyl isobutyrate		804	9.486
1-(p-Tolyl)ethan-1-ol	p-alpha-Dimethylbenzyl alcohol		805	2.08
Acetophenone			806	7.004
4-Methylacetophenone			807	7.022
4-Isopropylacetophenone	p-Isopropylacetophenone		808	7.042
2,4-Dimethylacetophenone			809	7.023
4-Methoxyacetophenone	Acetanisole		810	7.038
Methyl 2-naphthyl ketone			811	7.013
4-Acetyl-6-t-butyl-1,1-dimethylindane			812	
4-Methoxyphenylacetone	1-(p-Methoxyphenyl)-2-propanone		813	7.087
1-Methyl-2-phenethyl butyrate	alpha-Methylphenethyl butyrate		814	9.249
4-Phenylbutan-2-ol	4-Phenyl-2-butanol		815	2.036
1-Methyl-3-phenylpropyl acetate	4-Phenyl-2-butyl acetate		816	9.2
4-(p-Tolyl)butan-2-one	4-(p-Tolyl)-2-butanone		817	7.026
4-(4-Methoxyphenyl)butan-2-one	4-(p-Methoxyphenyl)-2-butanone		818	7.029
4-Phenylbut-3-en-2-ol	4-Phenyl-3-buten-2-ol		819	2.066
4-Phenylbut-3-en-2-one	4-Phenyl-3-buten-2-one		820	7.024
3-Methyl-4-phenylbut-3-en-	3-Methyl-4-phenyl-3-buten-2-		821	7.027

أسم النكهة	أسماء أخرى	قيود الاستخدام	JECFA No.	FL No.
2-one	one			
1-Phenylpropan-1-ol	1-Phenyl-1-propanol		822	2.033
1-Phenylpropyl butyrate	alpha-ethylbenzyl butyrate		823	9.189
1-Phenylpropan-1-one	Propiophenone		824	7.04
1-Phenylpentan-2-ol	alpha-propylphenethyl alcohol		825	2.034
1-(4-Methoxyphenyl)pent-1-en-3-one	1-(p-Methoxyphenyl)-1-penten-3-one		826	7.03
4-Methyl-1-phenylpentan-2-ol	alpha-isobutylphenethyl alcohol		827	2.065
4-Methyl-1-phenylpentan-2-one	4-Methyl-1-phenyl-2-pentanone		828	7.025
1-(4-Methoxyphenyl)-4-methylpent-1-en-3-one	1-(4-Methoxyphenyl)-4-methyl-1-penten-3-one		829	7.049
3-Benzylheptan-4-one	3-Benzyl-4-heptanone		830	7.07
Benzophenone			831	7.032
1,3-Diphenylpropan-2-one	1,3-Diphenyl-2-propanone		832	7.086
1-Phenylpropan-1,2-dione	1-Phenyl-1,2-propandione		833	7.079
Ethyl 3-phenyl-3-oxopropionate	Ethyl benzoylacetate		834	9.476
Ethyl 2-acetyl-3-phenylpropionate	Ethyl 2-acetyl-3-phenylpropionate		835	9.501
Benzoin			836	7.028
alpha,alpha-Dimethoxytoluene	Benzaldehyde dimethyl acetal		837	6.003
5-Hydroxy-2-phenyl-1,3-dioxane	Benzaldehyde glyceryl acetal		838	6.002

أسم النكهة	أسماء أخرى	قيود الاستخدام	JECFA No.	FL No.
4-Methyl-2-phenyl-1,3-dioxolane	Benzaldehyde propylene glycol acetal		839	6.032
1-Benzyl-2-methoxyethoxyethane	Benzyl-2-methoxyethyl acetal		840	6.019
Benzyl formate			841	9.077
Benzyl propionate			842	09.132
Benzyl butyrate			843	9.051
Benzyl isobutyrate			844	9.426
Benzyl isovalerate			845	9.458
Benzyl 2-methylcrotonate	Benzyl trans-2-methyl-2-butenate		846	9.494
Benzyl 2,3-dimethylcrotonate			847	9.508
Benzyl 3-oxobutyrate	Benzyl acetoacetate		848	9.406
Benzyl phenylacetate			849	9.705
Benzoic acid			850	8.021
Methyl benzoate			851	9.725
Ethyl benzoate			852	9.726
Propyl benzoate			853	9.776
Hexyl benzoate			854	9.768
Isopropyl benzoate			855	9.77
Isobutyl benzoate			856	9.757
Isopentyl benzoate			857	9.755
(Z)-Hex-3-enyl benzoate	cis-3-Hexenyl benzoate		858	9.806
Linalyl benzoate			859	9.771
Geranyl benzoate			860	9.767

أسم النكهة	أسماء أخرى	قيود الاستخدام	JECFA No.	FL No.
Glyceryl tribenzoate			861	9.812
Propylene glycol dibenzoate			862	9.803
2-Methylbenzyl acetate	2-Methylbenzyl acetate (mixed o, m, p)		863	9.294
4-Isopropylbenzyl alcohol	p-Isopropylbenzyl alcohol		864	2.039
4-Ethylbenzaldehyde			865	5.068
Tolualdehyde	Tolualdehydes (mixed o,m,p)		866	5.027
Tolualdehyde glyceryl acetal	Tolualdehyde glyceryl acetal (mixed isomers)		867	6.012
4-Isopropylbenzaldehyde	Cuminaldehyde		868	5.022
2,4-Dimethylbenzaldehyde			869	5.11
Butyl p-hydroxybenzoate			870	
p-Anisyl alcohol	Anisyl alcohol		871	2.128
p-Anisyl formate	Anisyl formate		872	9.087
p-Anisyl acetate	Anisyl acetate		873	9.019
p-Anisyl propionate	Anisyl propionate		874	9.145
p-Anisyl butyrate	Anisyl butyrate		875	9.058
Anisyl phenylacetate			876	9.706
Veratraldehyde			877	5.017
4-Methoxybenzaldehyde	p-Methoxybenzaldehyde		878	5.015
4-Ethoxybenzaldehyde	p-Ethoxybenzaldehyde		879	5.056
Methyl 2-methoxybenzoate	Methyl o-methoxybenzoate		880	9.796
2-Methoxybenzoic acid			881	
3-Methoxybenzoic acid			882	8.092
p-Anisic acid	4-methoxybenzoic acid		883	8.071
Methyl 4-methoxybenzoate	Methyl anisate		884	9.713

أسم النكهة	أسماء أخرى	قيود الاستخدام	JECFA No.	FL No.
Ethyl 4-methoxybenzoate	Ethyl p-anisate		885	9.714
Vanillyl alcohol			886	2.213
Ethyl 4-hydroxy-3-methoxybenzyl ether	vanillyl ethyl ether		887	4.094
Butyl vanillyl ether	Vanillyl butyl ether		888	4.093
Vanillin			889	5.018
Vanillyl acetate			890	9.035
Vanillin isobutyrate			891	9.811
Ethyl vanillin beta-D-glucopyranoside			892	16.08
Ethyl vanillin			893	5.019
Piperonyl acetate			894	9.22
Piperonyl isobutyrate			895	9.43
Piperonal			896	5.016
Salicylaldehyde			897	5.055
2-Hydroxy-4-methylbenzaldehyde			898	5.091
Methyl salicylate			899	9.749
Ethyl salicylate			900	9.748
Butyl salicylate			901	9.763
Isobutyl salicylate			902	9.75
Isopentyl salicylate			903	9.751
Benzyl salicylate			904	9.752
Phenethyl salicylate			905	9.753
o-Tolyl salicylate			907	9.807
2,4-Dihydroxybenzoic acid			908	8.076



أسم النكهة	أسماء أخرى	قيود الاستخدام	JECFA No.	FL No.
3-Oxohecanoic acid glyceride			910	9.555
3-Oxooctanoic acid glyceride			911	9.556
Heptanal glyceryl acetal (mixed 1,2 and 1,3 acetals)			912	6.029
1,2,3-Tris([1'-ethoxy]-ethoxy)propane			913	6.04
3-Oxodecanoic acid glyceride			914	9.552
3-Oxododecanoic acid glyceride			915	9.553
3-Oxotetradecanoic acid glyceride			916	9.557
3-Oxohexadecanoic acid glyceride			917	9.554
Glyceryl monostearate			918	
Glyceryl monooleate			919	
Glyceryl tripropionate			921	9.263
Glyceryl tributyrate	Tributylin		922	9.211
Glyceryl 5-hydroxydecanoate			923	9.543
Glyceryl 5-hydroxydodecanoate			924	9.544
Propylene glycol stearate			926	
1,2-Di((1'-ethoxy)-			927	6.039

أسم النكهة	أسماء أخرى	قيود الاستخدام	JECFA No.	FL No.
ethoxy)propane				
4-Methyl-2-pentyl-1,3-dioxolane			928	6.094
2,2,4-Trimethyl-1,3-dioxolane	2,2,4-Trimethyl-1,3-oxacyclopentane		929	6.098
Lactic acid			930	8.004
Ethyl lactate			931	9.433
Butyl lactate			932	9.434
Potassium 2-(1'-ethoxy)ethoxypropanoate			933	16.04
Hex-(3Z)-enyl lactate	cis-3-Hexenyl lactate		934	9.545
Butyl-O-butyryllactate	Butyl butyryllactate		935	9.491
Pyruvic acid			936	8.019
2-Oxopropanal	Pyruvaldehyde		937	7.001
Ethyl pyruvate			938	9.442
Isopentyl pyruvate			939	9.443
1,1-Dimethoxyethane	1,1-Dimethoxy-ethane		940	6.015
1,1-Diethoxyethane	Acetal		941	6.001
1,1-Dimethoxyoctane	Octanal dimethyl acetal		942	6.008
(Z)-1-Ethoxy-1-(3-hexenyloxy)ethane	Acetaldehyde ethyl cis-3-hexenyl acetal		943	6.081
Citral dimethyl acetal			944	6.005
1,1-dimethoxydecane	Decanal dimethyl acetal		945	6.009
1,1-Diethoxynona-2,6-diene	2,6-nonadienal diethyl acetal		946	6.025
1,1-Dimethoxyheptane	Heptanal dimethyl acetal		947	6.028
Citral diethyl acetal			948	6.004

أسم النكهة	أسماء أخرى	قيود الاستخدام	JECFA No.	FL No.
1,1-Diethoxyhept-4-ene (cis and trans)	4-Heptanal diethyl acetal		949	6.037
2-Acetyl-3-methylpyrazine			950	14.08
Pyrazine			951	14.14
5,6,7,8-Tetrahydroquinoxaline			952	14.02
Ethyl vanillin isobutyrate			953	9.933
Ethyl vanillin propylene glycol acetal			954	
4-Hydroxybenzyl alcohol			955	2.165
4-Hydroxybenzaldehyde			956	5.047
4-Hydroxybenzoic acid			957	8.04
Salicylic acid	2-Hydroxybenzoic acid		958	8.112
Vanillic acid	4-Hydroxy-3-methoxy benzoic acid		959	8.043
Vanillin butan-2,3-diol acetal (mixture of stereo isomers)	Vanillin erythro- & threo-butan-2,3-diol acetal		960	6.132
Cyclohexanecarboxylic acid			961	8.06
Methyl cyclohexanecarboxylate			962	9.536
Ethyl cyclohexanecarboxylate			963	9.534
2-Cyclohexylethyl acetate	Cyclohexaneethyl acetate		964	9.028
Cyclohexylacetic acid	Cyclohexaneacetic acid		965	8.034
Ethyl cyclohexanepropionate			966	9.488

أسم النكهة	أسماء أخرى	قيود الاستخدام	JECFA No.	FL No.
(1R) 2,2,3-Trimethylcyclopent-3-en-1-yl acetaldehyde	2,2,3-Trimethylcyclopent-3-en-1-yl acetaldehyde		967	5.119
(1R,2R,5S) 5-Isopropenyl-2-methylcyclopentanecarboxaldehyde	cis-5-Isopropenyl-cis-2-methylcyclopentanecarboxaldehyde		968	5.123
alpha-Campholene acetate	Campholene acetate		969	9.289
2-(2,2,3-Trimethylcyclopent-3-enyl)ethan-1-ol	alpha-Camphonelic acid		970	2.114
p-Menth-1-en-9-al			971	5.098
p-Menth-1-en-9-yl acetate	1-p-Menthen-9-yl acetate		972	9.615
p-Mentha-1,8-dien-7-ol			974	2.06
p-Mentha-1,8-dien-7-yl acetate			975	9.278
1,2,5,6-Tetrahydrocuminic acid			976	8.067
2,6,6-Trimethylcyclohexa-1,3-diene-1-carbaldehyde	2,6,6-Trimethylcyclohexa-1,3-dienyl methanal		977	5.104
2,6,6-Trimethylcyclohex-1-en-1-acetaldehyde			978	5.112
2,6,6-Trimethyl-1-cyclohexen-1-carboxaldehyde	2,6,6-Trimethyl-1&2-cyclohexen-1-carboxaldehyde		979	5.121
Myrtenal	2-Formyl-6,6-dimethylbicyclo[3.1.1]hept-2-ene (Myrtenal)		980	5.106

أسم النكهة	أسماء أخرى	قيود الاستخدام	JECFA No.	FL No.
Myrtenol			981	2.091
Myrtenyl acetate			982	9.302
Myrtenyl formate	6,6-Myrtenyl formate		983	9.272
Santalol (alpha and beta)			984	
Santalyl acetate	Santalyl acetate (alpha and beta)		985	9.034
2-(6,6-Dimethylbicyclo[3.1.1]hept-2-en-2-yl)ethan-1-ol	10-Hydroxymethylene-2-pinene		986	2.141
2-Phenylethan-1-ol			987	2.019
Phenethyl formate			988	9.083
Phenethyl acetate			989	9.031
Phenethyl propionate			990	9.137
Phenethyl butyrate			991	9.168
Phenethyl isobutyrate			992	9.427
Phenethyl 2-methylbutyrate			993	9.538
Phenethyl isovalerate			994	9.466
2-Phenethyl hexanoate	Phenethyl hexanoate		995	9.261
Phenethyl octanoate			996	9.262
Phenethyl 2-methylcrotonate	Phenethyl tiglate		997	9.496
2-Phenethyl 3-methylcrotonate	Phenethyl senecioate		998	9.407
Phenethyl phenylacetate			999	9.707
1-Phenylethoxy-1-propoxy ethane	Acetaldehyde phenethyl propyl acetal		1000	6.016
1-Butoxy-1-(2-	Acetaldehyde butyl phenethyl		1001	6.036

أسم النكهة	أسماء أخرى	قيود الاستخدام	JECFA No.	FL No.
phenylethoxy)ethane	acetal			
Phenylacetaldehyde			1002	5.03
1,1-Dimethoxy-2-phenylethane	Phenylacetaldehyde dimethyl acetal		1003	6.006
Phenylacetaldehyde glyceryl acetal			1004	6.007
4,5-Dimethyl-2-benzyl-1,3-dioxolan	Phenylacetaldehyde 2,3-butylene glycol acetal		1005	6.027
1,1-Di-isobutoxy-2-phenylethane	Phenylacetaldehyde diisobutyl acetal		1006	6.024
Phenylacetic acid			1007	8.038
Methyl phenylacetate			1008	9.783
Ethyl phenylacetate			1009	9.784
Propyl phenylacetate			1010	9.702
Isopropyl phenylacetate			1011	9.786
Butyl phenylacetate			1012	9.787
Isobutyl phenylacetate			1013	9.788
3-Methylbutyl phenylacetate	Isoamyl phenylacetate		1014	9.789
Hexyl phenylacetate			1015	9.804
Hex-3-enyl phenylacetate	3-Hexenyl phenylacetate		1016	9.805
Octyl phenylacetate			1017	9.703
(3S)-Rhodinyl phenylacetate	Rhodinyll phenylacetate		1018	9.791
Linalyl phenylacetate			1019	9.772
(2E)-Geranyl phenylacetate	Geranyl phenylacetate		1020	9.704
Citronellyl phenylacetate			1021	9.785
Santalyl phenylacetate	Santalyl phenylacetate (alpha		1022	9.712

أسم النكهة	أسماء أخرى	قيود الاستخدام	JECFA No.	FL No.
	and beta)			
p-Tolylacetaldehyde			1023	5.042
p-Isopropyl phenylacetaldehyde			1024	5.044
Methyl p-tert-butylphenylacetate			1025	9.758
Phenoxyacetic acid			1026	8.049
Ethyl (p-tolyloxy)acetate			1027	9.797
2-Phenoxyethyl isobutyrate			1028	9.487
Sodium 2-(4-methoxyphenoxy)propionate			1029	16.041
Thiamine hydrochloride			1030	16.027
5-(2-Hydroxyethyl)-4-methylthiazole	4-Methyl-5-thiazoleethanol		1031	15.014
Thiazole			1032	
2-(sec-Butyl)thiazole	2-(1-Methylpropyl)thiazole		1033	15.022
2-Isobutylthiazole			1034	15.013
4,5-Dimethylthiazole			1035	15.017
2,4,5-Trimethylthiazole			1036	15.019
2-Isopropyl-4-methylthiazole			1037	15.026
4-Methyl-5-vinylthiazole			1038	15.018
2,4-Dimethyl-5-vinylthiazole			1039	15.005
Benzothiazole			1040	15.016
2-Acetylthiazole			1041	15.02
2-Propionylthiazole			1042	15.027

أسم النكهة	أسماء أخرى	قيود الاستخدام	JECFA No.	FL No.
4-Methylthiazole			1043	15.035
2-Ethyl 4-methylthiazole			1044	15.033
4,5-Dimethyl-2-isobutyl-3-thiazoline			1045	15.032
2-Isobutyl-4,6-dimethyldihydro-1,3,5-dithiazine and 4-isobutyl-2,6-dimethyldihydro-1,3,5-dithiazine (mixture)			1046	
2-Isopropil-4,6-dimetil y 4-Isopropil-2,6-dimetildihidro-1,3,5-ditiazina (mezcla)			1047	
5,6-Dihydro-2,4,6-tris(2-methylpropyl)4H-1,3,5-dithiazine	2,4,6-Triisobutyl-5,6-dihydro-4H-1,3,5-dithiazine		1048	15.113
2,4,6-Trimethyldihydro-1,3,5(4H)-dithiazine	2,4,6-Trimethyldihydro-4H-1,3,5-dithiazine		1049	15.109
5-Methyl-2-thiophenecarbaldehyde			1050	15.004
3-Acetyl-2,5-dimethylthiophene			1051	15.024
2-Mercaptothiophene	2-Thienylmercaptan		1052	15.001
2-Thienyl disulfide			1053	15.008
4-Methyl-5-(2-acetoxyethyl)thiazole	4-Methyl-5-thiazoleethanol acetate		1054	15.015
5-Acetyl-2,4-	2,4-dimethyl-5-acetylthiazole		1055	15.011



أسم النكهة	أسماء أخرى	قيود الاستخدام	JECFA No.	FL No.
dimethylthiazole				
2-Ethoxythiazole			1056	15.021
2-Methyl-5-methoxythiazole			1057	15.002
4,5-Dimethyl-2-ethyl-3-thiazoline			1058	15.03
2-(sec-Butyl)-4,5-dimethyl-3-thiazoline			1059	15.029
2-Methylfuran-3-thiol	2-Methyl-3-furanthiol		1060	13.055
2-Methyl-3-(methylthio)furan			1061	13.152
2-Methyl-5-(methylthio)furan			1062	13.065
2,5-Dimethylfuran-3-thiol	2,5-Dimethyl-3-furanthiol		1063	13.071
Methyl 2-methyl-3-furyl disulfide			1064	13.079
Propyl 2-methyl-3-furyl disulfide			1065	13.082
bis-(2-Methyl-3-furyl) disulfide			1066	13.016
bis-(2,5-Dimethyl-3-furyl) disulfide			1067	13.015
bis-(2-Methyl-3-furyl) tetrasulfide			1068	13.017
2-Methyl-3-furyl thioacetate	2-Ethanethoic acid, S-(2-methyl-3-furanyl) ester		1069	13.153
2,5-Dimethyl-3-			1070	13.041

أسم النكهة	أسماء أخرى	قيود الاستخدام	JECFA No.	FL No.
(isopentylthio)furan				
(S)-2,5-dimethyl-3-thiofuroylfuran			1071	13.04
2-Furanmethanethiol	Furfuryl mercaptan		1072	13.026
S-Furfuryl thioformate			1073	13.051
S-Furfuryl acetothioate	S-Furfuryl thioacetate		1074	13.033
S-Furfuryl propanethioate			1075	13.063
Methyl furfuryl sulfide	Furfuryl methyl sulfide		1076	13.053
Furfuryl isopropyl sulfide			1077	13.032
Methyl furfuryl disulfide			1078	13.064
Furfuryl propyl disulphide	Propyl furfuryldisulfide		1079	13.197
Difurfuryl sulfide	2,2'-(Thiodimethylene)difuran		1080	13.056
Difurfuryl disulfide	2,2'-(Dithiodimethylene)difuran		1081	13.05
2-Methyl-3,5 and 6-(furfurylthio)pyrazine			1082	13.151
S-Methyl 2-furanthiocarboxylate	S-Methyl thiofuroate		1083	13.142
[(2-furanylmethyl)thio]-2-pentanone			1084	13.196
3-((2-Methyl-3-furyl)thio)heptan-4-one	3-((2-Methyl-3-furyl)thio)-4-heptanone		1085	13.077
2,6-Dimethyl-3-((2-methyl-3-furyl)thio)heptan-4-one	2,6-Dimethyl-3-((2-methyl-3-furyl)thio)-4-heptanone		1086	13.075
4-((2-Methyl-3-furyl)thio)nonan-5-one	4-((2-Methyl-3-furyl)thio)-5-nonanone		1087	13.078

أسم النكهة	أسماء أخرى	قيود الاستخدام	JECFA No.	FL No.
Ethyl 3-(2-furfurylthio)propionate			1088	13.093
4,5-Dihydro-2-methyl-3-thioacetoxymfuran	2-Methyl-3-thioacetoxymfuran-4,5-dihydrofuran		1089	13.086
2-Methyltetrahydrofuran-3-thiol	2-Methyl-3-tetrahydrofuranthiol		1090	13.16
2,5-Dimethyltetrahydro-3-furanthiol	2,5-Dimethyl-3-tetrahydrofuranthiol (cis and trans isomers)		1091	13.193
2,5-Dimethyltetrahydro-3-furyl thio acetate	2,5-Dimethyl-3-thioacetoxymfuran (cis and trans isomers)		1092	13.194
Cyclohexyl acetate			1093	9.027
Cyclohexyl butyrate			1094	9.23
Cyclohexyl formate			1095	9.16
Cyclohexyl isovalerate			1096	9.464
Cyclohexyl propionate			1097	9.14
Cyclohexyl, 2-methylene-5-(1-methylethenyl) acetate	cis and trans-p-1(7)8-Menthadien-2-yl acetate		1098	9.93
3,3,5-Trimethylcyclohexan-1-ol	3,5,5-Trimethylcyclohexanol		1099	2.209
Cyclohexanone			1100	7.148
Cyclopentanone			1101	7.149
2-Methylcyclohexanone			1102	7.179
3-Methylcyclohexanone			1103	7.18
4-Methylcyclohexanone			1104	

أسم النكهة	أسماء أخرى	قيود الاستخدام	JECFA No.	FL No.
3-Methyl-2-cyclopenten-1-one	1-Methyl-1-cyclopenten-3-one		1105	7.112
2-Hexylidenecyclopentan-1-one	2-Hexylidenecyclopentanone		1106	7.034
3-Methylcyclohex-2-en-1-one	3-Methyl-2-cyclohexen-1-one		1107	7.098
2,2,6-Trimethylcyclohexanone			1108	7.045
2-(sec-Butyl)cyclohexanone	2-(sec-Butyl)-cyclohexanone		1109	7.095
4-Isopropylcyclohex-2-en-1-one	4-Isopropyl-2-cyclohexenone		1110	7.172
Tetramethyl ethylcyclohexenone (mixture of isomers)			1111	7.035
3,5,5-Trimethylcyclohex-2-en-1-one	Isophorone		1112	7.126
3-Methyl-5-propylcyclohex-2-en-1-one			1113	7.129
3-Methyl-2-(pent-2(cis)-enyl)cyclopent-2-en-1-one	3-Methyl-2-(2-pentenyl)-2-cyclopenten-1-one		1114	7.094
Isojasmone			1115	7.033
(E)-2-(2-Octenyl)cyclopentanone			1116	
2-(3,7-Dimethyl-2,6-octadienyl)cyclopentanone			1117	7.257
Decan-3-one	3-Decanone		1118	7.151

أسم النكهة	أسماء أخرى	قيود الاستخدام	JECFA No.	FL No.
5-Methylhex-5-en-2-one	5-Methyl-5-hexen-2-one		1119	7.1
6-Methylhept-5-en-2-one	6-Methyl-5-hepten-2-one		1120	7.015
Tetrahydro-pseudo-ionone	3,4,5,6-Tetrahydro-pseudo-ionone		1121	7.069
Geranylacetone	6,10-Dimethyl-5,9-undecadien-2-one		1122	7.123
6,10,14-Trimethylpentadeca-5,9,13-trien-2-one	2,6,10-Trimethyl-2,6,10-pentadecatrien-14-one		1123	7.114
Pent-3-en-2-one	3-Penten-2-one		1124	7.044
4-Hexen-3-one			1125	7.048
Hept-2-en-4-one	2-Hepten-4-one		1126	7.104
Hept-3-en-2-one	3-Hepten-2-one		1127	7.105
Oct-3-en-2-one	3-Octen-2-one		1128	7.107
Oct-2-en-4-one	2-Octen-4-one		1129	7.082
Dec-3-en-2-one	3-Decen-2-one		1130	7.121
4-Methylpent-3-en-2-one	4-Methyl-3-penten-2-one		1131	7.101
5-Methylhex-3-en-2-one	5-Methyl-3-hexen-2-one		1132	7.106
5-Methylhept-2-en-4-one	5-Methyl-2-hepten-4-one		1133	7.139
6-Methylhepta-3,5-dien-2-one	6-Methyl-3,5-heptadien-2-one		1134	7.099
7-Methyl-3-octenone-2	(E)-7-Methyl-3-octen-2-one		1135	7.177
Non-3-en-2-one	3-Nonen-2-one		1136	7.188
(E) & (Z)-4,8-Dimethyl-3,7-nonadiene-2-one			1137	7.256
(6E)-Methyl-3-hepten-2-one	(E)-6-Methyl-3-hepten-2-one		1138	7.244
(E,E)-3,5-Octadien-2-one			1139	7.247

أسم النكهة	أسماء أخرى	قيود الاستخدام	JECFA No.	FL No.
Oct-3-en-2-ol	3-Octen-2-ol		1140	2.102
Oct-2-en-4-ol	(E)-2-Octen-4-ol		1141	2.193
1-Methylbutyl butyrate	2-Pentyl butyrate		1142	9.658
3-Heptyl acetate (mixture of R and S)	(+/-)-Heptan-3-yl acetate		1143	9.924
Hept-2-yl butyrate	(+/-)-Heptan-2-yl butyrate		1144	9.923
Nonan-3-yl acetate	(+/-)-Nonan-3-yl acetate		1145	9.925
1-Methylbutyl acetate	2-Pentyl acetate		1146	9.657
Pent-1-en-3-one	1-Penten-3-one		1147	7.102
Oct-1-en-3-one	1-Octen-3-one		1148	7.081
2-Pentyl-1-buten-3-one			1149	
Pent-1-en-3-ol	1-Penten-3-ol		1150	2.099
Hex-1-en-3-ol	1-Hexen-3-ol		1151	2.104
Oct-1-en-3-ol	1-Octen-3-ol		1152	2.023
Dec-1-en-3-ol	1-Decen-3-ol		1153	2.136
(E,R)-3,7-Dimethyl-1,5,7-octatrien-3-ol			1154	
Undecan-6-one	6-Undecanone		1155	7.249
2-Methylheptan-3-one			1156	7.24
4-Methyl-5-hexen-1,4-olide	4-Hydroxy-4-methyl-5-hexenoic acid gamma lactone		1157	10.07
3-Methyl gamma-decalactone	(+/-) 3-Methyl-gamma-decalactone		1158	10.069
cis-5-Hexenyldihydro-5-methylfuran-2(3H)-one	4-Hydroxy-4-methyl-7-cis-decenoic acid gamma lactone		1159	10.061
Tuberose lactone			1160	

أسم النكهة	أسماء أخرى	قيود الاستخدام	JECFA No.	FL No.
Hexahydro-3,6-dimethyl-2(3H)-benzofuranone	Dihydromintlactone		1161	10.05
5,6,7,7a-Tetrahydro-3,6-dimethylbenzofuran-2(4H)-one	Mint lactone		1162	10.036
5,6-Dihydro-3,6-dimethylbenzofuran-2(4H)-one	Dehydromenthofurolactone		1163	10.034
5,6,7,7alpha-Tetrahydro-4,4,7alpha-trimethyl-2-(4H)-benzofuranone	(+/-)-(2,6,6,-Trimethyl-2-hydroxycyclohexylidene)acetic acid gamma-lactone		1164	10.169
(R)-(+)-Sclareolide	Sclareolide		1165	16.055
Octahydrocoumarin			1166	13.161
Dimethyl-3,6-benzo-2(3H)-furanone	2-(4-Methyl-2-hydroxyphenyl) propionic acid-gamma-lactone		1167	10.072
3-Propylidenephthalide			1168	10.005
3-Butylphthalide			1169	10.025
3-Butylidenephthalide			1170	10.024
3,4-Dihydrocoumarin	Dihydrocoumarin		1171	13.009
6-Methylcoumarin			1172	13.012
Penta-2,4-dienal	2,4-Pentadienal		1173	5.101
Hexa-2,4-dien-1-ol	2,4-Hexadien-1-ol		1174	2.162
Hexa-2(trans),4(trans)-dienal	(E,E)-2,4-Hexadienal		1175	5.057
(E,E)-Hexa-2,4-dienoic acid	(E,E)-2,4-Hexadienoic acid		1176	8.085
Methyl (E,E)-hexa-2,4-dienoic acid	Methyl sorbate		1177	9.3

أسم النكهة	أسماء أخرى	قيود الاستخدام	JECFA No.	FL No.
Ethyl (E,E)-hexa-2,4-dienoic acid	Ethyl sorbate		1178	9.194
Hepta-2,4-dienal	(E,E)-2,4-Heptadienal		1179	5.084
(E,E)-2,4-Octadien-1-ol			1180	
Octa-2(trans),4(trans)-dienal	trans, trans-2,4-Octadienal		1181	5.127
Octa-2(trans),6(trans)-dienal	2(trans), 6(trans)-Octadienal		1182	5.111
Nona-2,4-dien-1-ol	2,4-Nonadien-1-ol		1183	2.188
Nona-2,6-dien-1-ol	2,6-Nonadien-1-ol		1184	2.049
Nona-2,4-dienal	2,4-Nonadienal		1185	5.071
Nona-2(trans),6(cis)-dienal			1186	5.058
Nona-2(trans),6(trans)-dienal	2(trans), 6(trans)-Nonadienal		1187	5.172
(E,Z)-2,6-nonadienyl acetate	(E,Z)-2,6-Nonadien-1-ol acetate		1188	9.947
Deca-2,4-dien-1-ol	(E,E)-2,4-Decadien-1-ol		1189	2.139
Deca-2(trans),4(trans)-dienal	2-trans-4-trans-Decadienal		1190	5.14
Methyl (E,Z)-deca-2,4-dienoate	Methyl (E)-2-(Z)-4-decadienoate		1191	9.639
Ethyl (E,Z)-deca-2,4-dienoate	Ethyl trans-2-cis-4-decadienoate		1192	9.26
Ethyl deca-2,4,7-trienoate	Ethyl 2,4,7-decatrienoate		1193	9.371
Propyl 2,4-decadienoate			1194	9.84
Undeca-2,4-dienal	2,4-Undecadienal		1195	5.108
Dodeca-2,4-dienal	trans, trans-2,4-Dodecadienal		1196	5.125
Dodeca-2,6-dienal	2-trans-6-cis-Dodecadienal		1197	5.12
Trideca-2(trans),4(cis),7(cis)-trienal	2(trans), 4(cis), 7(cis)-Tridecatrienal		1198	5.064



أسم النكهة	أسماء أخرى	قيود الاستخدام	JECFA No.	FL No.
2-Methylbutan-1-ol	(+/-)-2-Methyl-1-butanol		1199	2.076
3-Methylbut-2-en-1-ol	3-Methyl-2-buten-1-ol		1200	2.109
2-Methylcrotonaldehyde	2-Methyl-2-butenal		1201	5.095
3-Methylcrotonaldehyde	Methyl-2-butanal		1202	5.124
Ammonium isovalerate	3-Ammonium isovalerate		1203	16
3-Methylcrotonic acid			1204	8.07
(2E)-Methylcrotonic acid	trans-2-Methyl-2-butenic acid		1205	8.064
Isobutyl crotonate	Isobutyl 2-butenate		1206	9.273
2-Methylallyl butyrate			1207	
4-Methylpent-2-enal	4-Methyl-2-pentenal		1208	5.114
2-Methylpent-2-enal	2-Methyl-2-pentenal		1209	5.09
2-Methyl-2-pentenoic acid	2-Methyl-2-pentenoic acid		1210	8.055
(2E),4-Dimethylpent-2-enoic acid	2,4-Dimethyl-2-pentenoic acid		1211	8.044
2-Methylheptanoic acid			1212	8.047
Isobutyl 2-methylbut-2(cis)-enoate	Isobutyl angelate		1213	9.408
2-Butylbut-2-enal	2-Butyl-2-butenal		1214	5.105
2-Isopropyl-5-methylhex-2-enal	2-Isopropyl-5-methyl-2-hexenal		1215	5.107
2-Ethylhept-2-enal	2-Ethyl-2-heptenal		1216	5.033
2-Methyloct-2-enal	2-Methyl-2-octenal		1217	5.126
4-Ethyl-octanoic acid			1218	8.079
Citronellol	dl-Citronellol		1219	2.011
Citronellal			1220	5.021
Citronellic acid	3,7-Dimethyl-6-octenoic acid		1221	8.036

أسم النكهة	أسماء أخرى	قيود الاستخدام	JECFA No.	FL No.
(-)-Rhodinol	Rhodinol		1222	2.027
Geraniol			1223	2.012
(Z)-Nerol	Nerol		1224	2.058
Citral			1225	5.02
2,6-Dimethyl-2,5,7-octatriene-1-ol acetate	8-Ocimenyl acetate		1226	9.931
2,6-Dimethyl-10-methylene-2,6,11-dodecatrienal			1227	
Farnesal	3,7,11-Trimethyl-2,6,10-dodecatrienal		1228	5.148
12-Methyltridecanal			1229	5.169
3,7,11-Trimethyldodeca-2,6,10-trien-1-ol	Farnesol		1230	2.029
2-Butyl ethyl ether	sec-Butyl ethyl ether		1231	3.005
Prenyl ethyl ether	1-Ethoxy-3-methyl-2-butene		1232	3.019
1,4-Cineole			1233	3.007
1,8-Cineole	Eucalyptol		1234	3.001
3,6-Dihydro-4-methyl-2-(2-methylprop-1-en-1-yl)-2H-pyran	Nerol oxide		1235	13.088
2,6,6-Trimethyl-2-vinyltetrahydropyran	2,2,6-Trimethyl-6-vinyltetrahydropyran		1236	13.094
2-(2-Methylprop-1-enyl)-4-methyltetrahydropyran	Tetrahydro-4-methyl-2-(2-methylpropen-1-yl) pyran		1237	13.037
Theaspirane			1238	13.098
6,7,8,8a-Tetrahydro-	Cycloionone		1239	13.165

أسم النكهة	أسماء أخرى	قيود الاستخدام	JECFA No.	FL No.
2,5,5,8a-tetramethyl-5H-1-benzopyran				
1,5,5,9-Tetramethyl-13-oxatricyclo [8.3.0.0.(4.9)]tridecane			1240	13.072
Anisole			1241	4.032
1-Methoxy-2-methylbenzene	orto-Methylanisole		1242	4.014
1-Methoxy-4-methylbenzene	para-Methylanisole		1243	4.015
1-Methoxy-4-propylbenzene	para-propylanisole		1244	4.039
1,3-Dimethyl-4-methoxybenzene	2,4-dimethylanisole		1245	4.063
1-Isopropyl-2-methoxy-4-methylbenzene	1-Methyl-3-methoxy-4-isopropylbenzene		1246	4.043
Carvacryl ethyl ether			1247	4.038
1,2-Dimethoxybenzene			1248	4.062
1,3-Dimethoxybenzene	m-Dimethoxybenzene		1249	4.016
1,4-Dimethoxybenzene	p-Dimethoxybenzene		1250	4.034
1,2-Dimethoxy-4-vinylbenzene	3,4-Dimethoxy-1-vinylbenzene		1251	4.04
Benzyl ethyl ether			1252	3.003
Benzyl butyl ether			1253	3.01
2-Methoxyethyl benzene	Methyl phenethyl ether		1254	3.006
Diphenyl ether			1255	4.035
Dibenzyl ether			1256	3.004
2-Methoxynaphthalene	beta-Naphthyl methyl ether		1257	4.074
beta-Naphthyl ethyl ether			1258	4.033

أسم النكهة	أسماء أخرى	قيود الاستخدام	JECFA No.	FL No.
Isobutyl beta-naphthyl ether	beta-Naphthyl isobutyl ether		1259	4.054
Isoeugenol			1260	4.004
Isoeugenyl formate			1261	9.089
2-Methoxy-4-(prop-1-enyl)phenyl acetate	Isoeugenyl acetate		1262	9.03
Isoeugenyl phenylacetate			1263	9.71
6-Ethoxyprop-3-enylphenol	Propenylguaethol		1264	4.002
2,6-Dimethoxy-4-prop-1-enylphenol	4-Propenyl-2,6-dimethoxyphenol		1265	4.055
1,2-Dimethoxy-4-(prop-1-enyl)benzene	Isoeugenyl methyl ether		1266	4.013
1-Ethoxy-2-methoxy-4-(prop-1-enyl)benzene	Isoeugenyl ethyl ether		1267	4.017
Benzyl isoeugenyl ether	Isoeugenyl benzyl ether		1268	4.018
3-Methylbut-3-enyl acetate	Isoprenyl acetate		1269	9.655
4-Pentenyl acetate			1270	9.917
3-Hexenal			1271	5.192
3-Hexenyl formate	3-Hexenyl formate (cis and trans mixture)		1272	9.846
Ethyl 5-hexenoate			1273	9.921
Hex-3(cis)-enyl propionate	cis-Hexenyl propionate		1274	9.564
Hex-3(cis)-enyl isobutyrate	cis-Hexenyl isobutyrate		1275	9.563
(3Z)-Hexenyl (E)-but-2-enoate	(Z)-3-Hexenyl (E)-2-butenate		1276	9.566
Hex-3(cis)-enyl 2-methylcrotonate	cis-Hexenyl tiglate		1277	9.559

أسم النكهة	أسماء أخرى	قيود الاستخدام	JECFA No.	FL No.
(3Z)-hexenyl valerate	cis-Hexenyl valerate		1278	9.571
(3Z)-hexenyl (E)-hexenoate	3-Hexenyl 2-hexenoate		1279	9.568
(4Z)-Hepten-1-ol	(Z)-4-Hepten-1-ol		1280	2.249
(4Z)-Ethylheptenoate	Ethyl cis-4-heptenoate		1281	9.922
(5Z)-Octenylpropionate	(Z)-5-Octenyl propionate		1282	9.932
(Z,Z)-Nona-3,6-dien-1-ol	(Z,Z)-3,6-Nonadien-1-ol		1283	2.189
(E,Z)-3,6-Nonadien-1-ol			1284	2.243
(E,Z)-3,6-Nonadien-1-ol, acetate	(E,Z)-3,6-Nonadien-1-yl acetate		1285	9.674
Dec-9-enal	9-Decenal		1286	5.139
Dec-4-enoic acid	4-Decenoic acid		1287	8.075
cis-4-Decenyl acetate	cis-4-Decenyl acetate		1288	9.918
3-Mercapto-2-methyl-1-butanol	Erythro- and threo-3-Mercapto-2-methylbutan-1-ol		1289	12.291
2-Mercapto-2-methylpentan-1-ol	(+/-)-2-Mercapto-2-methylpentan-1-ol		1290	12.241
3-Mercapto-2-methylpentan-1-ol	3-Mercapto-2-methylpentan-1-ol (racemic)		1291	12.238
3-Mercapto-2-methylpentanal			1292	12.239
2-Methyl-4-oxopentane-2-thiol	4-Mercapto-4-methyl-2-pentanone		1293	12.169
Ethyl 3-mercaptoputyrate	(+/-)-Ethyl 3-mercaptoputyrate		1294	12.255
Ethyl 4-(acetylthio)butyrate			1295	12.257
Spiro(2,4-dithia-6-methyl-7-oxabicyclo[3.3.0]octane-	spiro(2,4-Dithia-1-methyl-8-oxa-bicyclo[3.3.0]octane-3,3'-		1296	15.007

أسم النكهة	أسماء أخرى	قيود الاستخدام	JECFA No.	FL No.
3,3'-(1'-oxa-2'- methyl)-cyclopentane)	(1'-oxa-2'-methyl)-cyclopentane)			
2-(Methylthio)ethan-1-ol	2-(Methylthio) ethanol		1297	12.179
Ethyl-5-(methylthio)valerate			1298	12.212
2,3,5-Trithiahexane			1299	12.198
Diisopropyl trisulphide			1300	12.28
Indole			1301	14.007
6-Methylquinoline			1302	14.042
Isoquinoline			1303	14.001
3-Methylindole	Skatole		1304	14.004
2-Acetyl-1-ethylpyrrole	1-Ethyl-2-acetylpyrrole		1305	14.045
2-Acetyl-1-methylpyrrole	1-Methyl-2-acetylpyrrole		1306	14.046
2-Acetylpyrrole	Methyl-2-pyrrolyl ketone		1307	14.047
2-Pyridine methanethiol			1308	14.03
2-Acetylpyridine			1309	14.038
1-Furfurylpyrrole	N-Furfurylpyrrole		1310	13.134
2-Isobutylpyridine	2-(2-Methylpropyl) pyridine		1311	14.058
3-Isobutylpyridine	3-(2-Methylpropyl) pyridine		1312	14.059
2-Pentylpyridine			1313	14.06
Pyrrole			1314	14.041
3-Ethylpyridine			1315	14.061
3-Acetylpyridine			1316	14.039
2,6-Dimethylpyridine			1317	14.065
5-Ethyl-2-methylpyridine			1318	14.066
2-Propionylpyrrole			1319	14.068
Methyl nicotinate			1320	14.071

أسم النكهة	أسماء أخرى	قيود الاستخدام	JECFA No.	FL No.
2-(3-Phenylpropyl)pyridine			1321	14.072
2-Propylpyridine			1322	14.164
Camphene			1323	1.009
beta-Caryophyllene			1324	1.007
1-Isopropyl-4-methylbenzene	p-Cymene		1325	1.002
d-Limonene			1326	1.045
Myrcene			1327	1.008
alpha-Phellandrene			1328	1.006
Pin-2(3)-ene	alpha-Pinene		1329	1.004
Pin-2(10)-ene	beta-Pinene		1330	1.003
Terpinolene			1331	1.005
Biphenyl			1332	
1-Isopropenyl-4-methylbenzene	para, alpha-Dimethylstyrene		1333	1.01
4-Methylbiphenyl			1334	
1-Methylnaphthalene			1335	1.014
1,4(8),12-Bisabolatriene	Bisabolene		1336	1.016
Valencene			1337	1.017
beta-Ocimene	3,7-Dimethyl-1,3,6-octatriene		1338	1.018
alpha-Terpinene	p-Mentha-1,3-diene		1339	1.019
gamma-Terpinene	p-Mentha-1,4-diene		1340	1.02
Undeca-1,3,5-triene	1,3,5-Undecatriene		1341	1.061
delta-3-Carene			1342	1.029
alpha-Farnesene	Farnesene (alpha and beta)		1343	1.04
1-Methyl-1,3-			1344	1.077

أسم النكهة	أسماء أخرى	قيود الاستخدام	JECFA No.	FL No.
cyclohexadiene				
beta-Bourbonene			1345	1.024
Cadinene (mixture of isomers)			1346	
1(5),7(11)-Guaiadiene	Guaiene		1347	1.026
Butyl dec-2-enoate	Butyl 2-decenoate		1348	9.235
Dec-2-enal	2-Decenal		1349	5.076
2-Dodecenal			1350	5.037
Ethyl acrylate			1351	9.037
Ethyl 2-nonynoate			1352	9.157
Hex-2(trans)-enal	2-Hexenal		1353	5.073
Hex-2-en-1-ol	2-Hexen-1-ol		1354	2.02
E-Hex-2-enyl acetate	(E)-2-Hexen-1-yl acetate		1355	9.394
Methyl 2-nonynoate			1356	9.156
Methyl 2-octynoate			1357	9.158
Methyl 2-undecynoate			1358	9.239
Tridec-2-enal	2-Tridecenal		1359	5.078
2-Heptenal	trans-2-Heptenal		1360	5.07
Hept-2(trans)-enal			1360	5.150
Hex-2(trans)-enoic acid	trans-2-Hexenoic acid		1361	8.054
Non-2-enal	2-Nonenal		1362	5.171
Oct-2-enal	2-Octenal		1363	5.06
Pent-2-enal	2-Pentenal		1364	5.102
Non-2(trans)-en-1-ol	trans-2-Nonen-1-ol		1365	2.09
2-Undecenal			1366	5.109
Oct-2-enyl acetate	trans-2-Octen-1-yl acetate		1367	9.276



أسم النكهة	أسماء أخرى	قيود الاستخدام	JECFA No.	FL No.
Oct-2(trans)-enyl butyrate	trans-2-Octen-1-yl butanoate		1368	9.277
Non-2(cis)-en-1-ol	cis-2-Nonen-1-ol		1369	2.112
(E)-2-Octen-1-ol			1370	
(E)-2-Butenoic acid			1371	
Dec-2-enoic acid	(E)-2-Decenoic acid		1372	8.073
trans-2-Heptenoic acid	(E)-2-Heptenoic acid		1373	8.123
Hex-2(cis)-en-1-ol	(Z)-2-Hexen-1-ol		1374	2.156
Hex-2-enyl butyrate	trans-2-Hexenyl butyrate		1375	9.396
Hex-2-enyl formate	(E)-2-Hexenyl formate		1376	9.397
(2E)-Hexenyl isovalerate	trans-2-Hexenyl isovalerate		1377	9.399
E -Hex-2-enyl propionate	trans-2-Hexenyl propionate		1378	9.395
trans-2-Hexenyl pentanoate			1379	
2-Nonenoic acid			1380	
Hex-(2E)-enyl hexanoate.	(E)-2-Hexenyl hexanoate		1381	9.398
(Z)-3-and (E)-2-Hexenyl propionate			1382	
1,1-Diethoxyhex-2-ene	(E)-2-Hexenal diethyl acetal		1383	6.031
Undec-2-en-1-ol	2-Undecen-1-ol		1384	2.21
DL-Borneol	Borneol		1385	2.016
DL-Isoborneol	Isoborneol		1386	2.059
DL-Bornyl acetate	Bornyl acetate		1387	9.017
DL-Isobornyl acetate	Isobornyl acetate		1388	9.218
DL-Bornyl formate	Bornyl formate		1389	9.082
DL-Isobornyl formate	Isobornyl formate		1390	9.176
DL-Isobornyl propionate	Isobornyl propionate		1391	9.131
DL-Bornyl valerate	Bornyl valerate		1392	9.153

أسم النكهة	أسماء أخرى	قيود الاستخدام	JECFA No.	FL No.
DL-Bornyl isovalerate	Bornyl isovalerate (endo-)		1393	9.456
DL-Isobornyl isovalerate	Isobornyl isovalerate		1394	9.457
d-Camphor		In category 1 – not more than 16 mg/kg In categories 2 and 9 – not more than 50 mg/kg In category 3 – not more than 20 mg/kg In categories 5, 7, 8, 13 and 16 – not more than 100 mg/kg In category 15 – not more than 50 mg/l	1395	7.215
d-Fenchone			1396	7.159
Fenchyl alcohol			1397	2.038
Nootkatone			1398	7.089
Fenchyl acetate	1,3,3-Trimethyl-2-norbornanyl acetate		1399	9.269
Methyl-3-oxo-2-pent-2-enyl-1-cyclopentylacetate	Methyl jasmonate		1400	9.521
Cycloheptadeca-9-en-1-one			1401	
3-Methyl-1-cyclopentadecanone			1402	
Pinocarveol	2(10)-Pinen-3-ol		1403	2.1
Pin-2-en-4-ol	Verbenol		1404	2.101
4,4a,5,6-Tetrahydro-7-methylnaphthalen-2(3H)-one	7-Methyl-4,4a,5,6-tetrahydro-2(3H)-naphthalenone		1405	7.136

أسم النكهة	أسماء أخرى	قيود الاستخدام	JECFA No.	FL No.
3-Methyl-2-pentylcyclopent-2-en-1-one	3-Methyl-2-(n-pentanyl)-2-cyclopenten-1-one		1406	7.14
(4R,4aS,6R,8aS)-1,10-Dihydronootkatone	Dihydronootkatone		1407	7.153
3-(1-Menthoxy)propane-1,2-diol	3-L-Menthoxy-propane-1,2-diol		1408	2.224
beta-Ionyl acetate			1409	9.305
alpha-Isomethylionyl acetate			1410	
(1R, 2S, 5S)-3-Menthoxy-2-methylpropane-1,2-diol	3-(1-Menthoxy)-2-methylpropane-1,2-diol		1411	2.254
DL-Bornyl butyrate	Bornyl butyrate		1412	9.319
D,L-Menthol(+/-)-propylene glycol carbonate			1413	
L-Monomenthyl glutarate			1414	
l-Menthylmethylether			1415	16.09
p-Menthane-3,8-diol	L-Menthyl methyl ether		1416	2.246
beta-Alanine			1418	17.001
L-Cysteine			1419	17.033
L-Glutamic acid			1420	
Glycine			1421	17.034
D,L-Isoleucine			1422	17.01
L-Leucine			1423	17.012
D,L-Methionine	DL-Methionine		1424	17.014
L-Proline			1425	17.019
D,L-Valine	DL-Valine		1426	17.023
S-	DL-(3-Amino-3-		1427	17.015

أسم النكهة	أسماء أخرى	قيود الاستخدام	JECFA No.	FL No.
Methylmethioninesulphonium chloride	carboxypropyl) dimethylsulfonium chloride			
L-Phenylalanine			1428	17.018
Aspartic acid	l-Aspartic acid		1429	17.005
Glutamine	l-Glutamine		1430	17.007
L-Histidine			1431	17.08
D,L-Phenylalanine	DL-Phenylalanine		1432	17.017
L-Thyrosine			1434	17.022
Taurine			1435	16.056
D,L-Alanine	DL-Alanine		1437	17.024
L-Arginine			1438	17.003
L-Lysine			1439	17.026
2-Hexyl-4-acetoxytetrahydrofuran			1440	
2-(3-Phenylpropyl)tetrahydrofuran			1441	13.007
Tetrahydrofurfuryl acetate			1442	13.166
Tetrahydrofurfuryl alcohol			1443	13.02
Tetrahydrofurfuryl butyrate			1444	13.048
Tetrahydrofurfuryl propionate			1445	13.049
4-Hydroxy-2,5-dimethylfuran-3(2H)-one	4-Hydroxy-2,5-dimethyl-3(2H)-furanone		1446	13.01
Tetrahydrofurfuryl cinnamate			1447	13.06

أسم النكهة	أسماء أخرى	قيود الاستخدام	JECFA No.	FL No.
4,5-Dihydro-2-methylfuran-3(2H)-one	2-Methyltetrahydrofuran-3-one		1448	13.042
2-Ethyl-4-hydroxy-5-methyl-3(2H)-furanone			1449	13.084
4-Hydroxy-5-methylfuran-3(2H)-one	4-Hydroxy-5-methyl-3(2H)-furanone		1450	13.085
2,5-Dimethyl-4-methoxyfuran-3(2H)-one	2,5-Dimethyl-4-methoxy-3(2H)-furanone		1451	13.089
2,2-Dimethyl-5-(1-methylprop-1-enyl)tetrahydrofuran	2,2-Dimethyl-5-(1-methylpropen-1-yl)tetrahydrofuran		1452	13.09
2,5-Diethyltetrahydrofuran			1453	13.095
Linalool oxide (5-ring)	cis and trans linalool oxide		1454	13.14
Anhydrolinalool oxide (5)	5-Isopropenyl-2-methyl-2-vinyltetrahydrofuran (cis and trans mixture)		1455	13.097
4-Acetoxy-2,5-dimethylfuran-3(2H)-one	4-Acetoxy-2,5-dimethyl-3(2H)-furanone		1456	13.099
(+/-)-2-(5-Methyl-5-vinyltetrahydrofuran-2-yl)propionaldehyde			1457	
Ethyl 4-phenylbutyrate			1458	9.728
2-Phenylpropan-1-ol	beta-Methylphenethyl alcohol		1459	2.073
1,1-Dimethyl-3-phenylpropyl acetate	2-Methyl-4-phenyl-2-butyl acetate		1460	9.029
1,1-Dimethyl-3-	2-Methyl-4-phenyl-2-butyl		1461	9.484

أسم النكهة	أسماء أخرى	قيود الاستخدام	JECFA No.	FL No.
phenylpropyl isobutyrate	isobutyrate			
2-Methyl-4-phenylbutyraldehyde			1462	5.046
3-Methyl-2-phenylbutyraldehyde			1463	5.097
Methyl 4-phenylbutyrate			1464	9.729
3-(p-Cumenyl)-2-methylpropionaldehyde	2-Methyl-3(p-isopropylphenyl)propionaldehyde		1465	5.045
2-Methyl-3-(p-tolyl)propionaldehyde	2-Methyl-3-tolylpropionaldehyde (mixed o, m, p)		1466	5.052
2-Phenylpropanal	2-Phenylpropionaldehyde		1467	5.038
1,1-Dimethoxy-2-phenylpropane	2-Phenylpropionaldehyde dimethyl acetal		1468	6.03
2-Phenylpropyl butyrate			1469	9.057
2-Phenylpropyl isobutyrate			1470	9.485
2-(p-Tolyl)propionaldehyde			1471	5.043
5-Methyl-2-phenylhex-2-enal	5-Methyl-2-phenyl-2-hexenal		1472	5.099
4-Methyl-2-phenylpent-2-enal	4-Methyl-2-phenyl-2-pentenal		1473	5.1
2-Phenylcrotonaldehyde	2-Phenyl-2-butenal		1474	5.062
Ethyl 2-ethyl-3-phenylpropionate			1475	9.802
2-Phenylpent-4-enal	2-Phenyl-4-pentenal		1476	5.115
2-Methyl-4-phenylbutan-2-	2-Methyl-4-phenyl-2-butanol		1477	2.108

أسم النكهة	أسماء أخرى	قيود الاستخدام	JECFA No.	FL No.
ol				
3-Phenylpyruvic acid	2-Oxo-3-phenylpropionic acid		1478	8.109
Sodium 2-oxo-3-phenylpropionate			1479	
Maltol			1480	7.014
Ethyl maltol			1481	7.047
Maltol isobutyrate			1482	9.525
2-Methyl-3-(1-oxopropoxy)-4H-pyran-4-one			1483	
2-Butyl-5 or 6-keto-1,4-dioxane			1484	13.028
2-Pentyl-5	2-Amyl-5 or 6-keto-1,4-dioxane		1485	13.027
2-Hexyl-5 or 6-keto-1,4-dioxane			1486	
2-Methylfuran			1487	13.03
2,5-Dimethylfuran			1488	13.029
2-Ethylfuran			1489	13.092
2-Butylfuran			1490	13.103
2-Pentylfuran			1491	13.059
2-Heptylfuran			1492	13.069
2-Decylfuran			1493	13.106
3-Methyl-2(3-methylbut-2-enyl)furan			1494	13.148
2,3-Dimethylbenzofuran			1495	13.074
2,4-Difurfurylfuran			1496	

أسم النكهة	أسماء أخرى	قيود الاستخدام	JECFA No.	FL No.
3-(2-furyl)acrylaldehyde	3-(2-Furyl)acrolein		1497	13.034
3-(2-Furyl)-2-methylprop-2-enal	2-Methyl-3(2-furyl)acrolein		1498	13.046
3-(5-Methyl-2-furyl)prop-2-enal			1499	13.15
3-(5-Methyl-2-furyl) butanal			1500	13.058
Furfurylidene-2-butanal	2-Furfurylidenebutyraldehyde		1501	13.043
3-(2-Furyl)-2-phenylprop-2-enal	2-Phenyl-3-(2-furyl)-prop-2-enal		1502	13.137
2-Acetylfuran	2-Furyl-methyl ketone		1503	13.054
2-Acetyl-5-methylfuran			1504	13.083
2-Acetyl-3,5-dimethylfuran			1505	13.101
3-Acetyl-2,5-dimethylfuran			1506	13.066
2-Butyrylfuran			1507	13.105
1-(2-Furyl)-propan-2-one	(2-Furyl)-2-propanone		1508	13.045
2-Pentanoylfuran			1509	13.163
1-(2-Furyl)butan-3-one			1510	13.138
4-(2-Furyl)but-3-en-2-one			1511	13.044
2-Hexanoylfuran	Pentyl-2-furyl ketone		1512	13.07
Ethyl 3(2-furyl)propionate			1513	13.022
Isobutyl 3-(2-furyl)propionate			1514	13.024
Isopentyl 3-(2-furan)propionate			1515	13.023
Isopentyl 4-(2-furan)butyrate			1516	13.021
Phenethyl 2-furoate			1517	13.006



أسم النكهة	أسماء أخرى	قيود الاستخدام	JECFA No.	FL No.
Propyl 3-(2-furyl)acrylate	Propyl 2-furanacrylate		1518	13.047
Furaneyl butyrate	2,5-Dimethyl-3-oxo-(2H)-fur-4-yl butyrate		1519	13.176
Furfuryl methyl ether			1520	13.052
Ethyl furfuryl ether			1521	13.123
Difurfuryl ether			1522	13.061
2,5-Dimethyl-3-thioacetoxymethoxyfuran	2,5-Dimethyl-3-furanethiol acetate		1523	13.116
3-[(2-Furfuryl)dithio]-2-methyl-furan	Furfuryl 2-methyl-3-furyl disulfide		1524	13.178
3-((2-Methyl-3-furyl)thio)-2-butanone			1525	13.19
O-Ethyl-S-(2-furylmethyl) thiocarbonate			1526	
4-Allylphenol			1527	4.058
2-Methoxy-6-(2-propenyl)phenol			1528	4.096
Eugenol			1529	4.003
Eugenyl formate			1530	9.088
Eugenyl acetate			1531	9.02
Eugenyl isovalerate			1532	9.878
Eugenyl benzoate			1533	9.766
Methyl anthranilate			1534	9.715
Ethyl anthranilate			1535	9.716
Butyl anthranilate			1536	9.717
Isobutyl anthranilate			1537	9.718

أسم النكهة	أسماء أخرى	قيود الاستخدام	JECFA No.	FL No.
Hex-3(cis)-enyl anthranilate	cis-3-Hexenyl anthranilate		1538	9.561
Citronellyl anthranilate			1539	
Linalyl anthranilate			1540	9.721
Cyclohexyl anthranilate			1541	9.722
alpha-Terpinyl anthranilate	beta-Terpinyl anthranilate		1542	9.724
Phenethyl anthranilate			1543	9.723
2-Naphthyl anthranilate	beta-Naphthyl anthranilate		1544	9.801
Methyl N-methylantranilate			1545	9.781
Ethyl N-methylantranilate			1546	9.765
Ethyl N-ethylantranilate			1547	9.764
Isobutyl N-methylantranilate			1548	9.769
Methyl N-formylantranilate			1549	9.65
Methyl N-acetylantranilate			1550	9.649
Methyl N,N-dimethylantranilate			1551	9.648
Dianthramid B	N-Benzoylantranilic acid		1552	16.087
Trimethyloxazole			1553	13.169
2,5-Dimethyl-4-ethyloxazole			1554	13.118
4,5-Dimethyl-2-ethyloxazole	2-Ethyl-4,5-dimethyloxazole		1555	13.091
2-Isobutyl-4,5-dimethyl oxazole	2-Isobutyl-4,5-dimethyloxazole		1556	13.195
2-Methyl-4,5-benzo-oxazole			1557	13.154
2,4-Dimethyl-3-oxazoline			1558	13.115
2,4,5-Trimethyl-delta-3-oxazoline			1559	13.039

أسم النكهة	أسماء أخرى	قيود الاستخدام	JECFA No.	FL No.
Allyl isothiocyanate			1560	12.025
Butyl isothiocyanate			1561	12.107
Benzyl isothiocyanate			1562	12.102
Phenethyl isothiocyanate			1563	12.193
3-(Methylthio)propyl isothiocyanate			1564	12.03
4-Acetyl-2-methylpyrimidine			1565	14.07
5,7-Dihydro-2-methylthieno(3,4-d)pyrimidine			1566	14.014
1-Phenyl-(3 or 5)-propylpyrazole			1568	14.029
4,5-Dimethyl-2-propyloxazole			1569	13.112
4,5-Epoxydec-2(trans)-enal	4,5,Epoxy-(E)-2-decenal		1570	16.071
beta-Ionone epoxide			1571	7.17
trans-Carvone-5,6-oxide			1572	
Epoxy oxophorone			1573	
Piperitenone oxide			1574	
beta-Caryophyllene epoxide	beta-Caryophyllene oxide		1575	16.043
Ethyl 3-phenyl-2,3-epoxypropionate	Ethyl 3-phenylglycidate		1576	16.018
Ethyl methylphenylglycidate			1577	16.015
Ethyl 2,3-epoxy-3-methyl-3-p-tolylpropionate	Ethyl methyl-p-tolylglycidate		1578	16.04

أسم النكهة	أسماء أخرى	قيود الاستخدام	JECFA No.	FL No.
Ethylamine			1579	11.015
Propylamine			1580	11.004
Isopropylamine			1581	11.018
Butylamine			1582	11.003
Isobutylamine			1583	11.002
sec-Butylamine			1584	11.005
Pentylamine			1585	11.021
2-Methylbutylamine			1586	11.02
3-Methylbutylamine	Isopentylamine		1587	11.001
Hexylamine			1588	11.016
Phenethylamine			1589	11.006
2-(4-Hydroxyphenyl)ethylamine			1590	11.007
1-Amino-2-propanol			1591	
Butyramide			1593	
1,6-Hexalactam			1594	16.052
2-Isopropyl- N,2,3-trimethylbutanamide			1595	16.053
N-Ethyl (2E,6Z)-nonadienamide	N-Ethyl (E)-2,(Z)-6-nonadienamide		1596	16.094
N-Cyclopropyl (E)-2,(Z)-6-nonadienamide			1597	
Deca-(2E,4E)-dienoic acid isobutyl-amide	N-Isobutyl (E,E)-2,4-decadienamide		1598	16.091
N-Nonanoyl 4-hydroxy-3-methoxybenzylamide	Nonanoyl 4-hydroxy-3-methoxybenzylamide		1599	16.006

أسم النكهة	أسماء أخرى	قيود الاستخدام	JECFA No.	FL No.
Piperine			1600	14.003
N-Ethyl-2-isopropyl-5-methylcyclohexane carboxamide			1601	16.013
(1R,2S,5R)-N,N-Dimethyl menthyl succinamide	(+/-)-N,N-Dimethyl menthyl succinamide		1602	16.092
1-Pyrroline			1603	14.167
2-Acetyl-1-pyrroline			1604	14.08
2-Propionyl pyrroline 1% vegetable oil triglycerides	2-Propionylpyrroline		1605	14.168
N-Isopentylidene isopentylamine	Isopentylidene isopentylamine		1606	11.017
Piperidine			1607	14.01
2-Methylpiperidine			1608	14.133
Pyrrolidine			1609	14.064
Trimethylamine			1610	11.009
Triethylamine			1611	11.023
Tripopylamine			1612	11.026
N,N-Dimethylphenethylamine			1613	
Trimethylamine oxide			1614	11.025
Piperazine			1615	14.141
Methyl 4-pentenoate			1616	
2-Methylbut-2-en-1-ol			1617	
Ethyl 4-pentenoate			1618	
Pent-4-enal	4-Pentenal		1619	5.174

أسم النكهة	أسماء أخرى	قيود الاستخدام	JECFA No.	FL No.
3-Isopropenylpentanedioic acid			1620	
trans-3-Hexenol			1621	
(4E)-hexenal	trans-4-Hexenal		1622	5.224
5-Hexenol			1623	
Methyl (3Z)-hexenoate	Methyl (Z)-3-hexenoate		1624	9.937
cis-4-Octenol			1625	
Ethyl (3Z)-hexenoate	Ethyl (Z)-3-hexenoate		1626	9.939
3-Octenoic acid			1627	
(Z)-3-Octenyl propionate			1628	
trans-4-Octenoic acid			1629	
Methyl (5Z)-Octenoate	Methyl (Z)-5-octenoate		1630	9.934
cis-5-Octenoic acid			1631	
Ethyl oct-3-enoate	Ethyl 3-octenoate		1632	9.377
cis-4-Decenol			1633	
Isobutyl 10-undecenoate			1634	
11-Dodecenoic acid			1635	
4Z-Dodecenal	(Z)-4-Dodecenal		1636	5.220
cis-9-Octadecenol			1637	
cis-9-Octadecenyl acetate			1638	
Methyl 10-undecenoate			1639	
Z-8-Tetradecenal			1640	5.208
9-Octadecenal			1641	5.203
(E)-4-Nonenal			1642	
2,3,4-Trimethyl-3-pentanol			1643	2.245
2,4,8-Trimethyl-7-nonen-2-			1644	2.25

أسم النكهة	أسماء أخرى	قيود الاستخدام	JECFA No.	FL No.
ol				
2,4,8-Trimethyl-3,7-nonadien-2-ol			1645	2.251
Nerolidol			1646	2.018
6-Acetoxydihydrotheaspirane			1647	13.09
6-Hydroxydihydrotheaspirane			1648	13.08
3-Methyl-1-phenylpentan-3-ol	1-Phenyl-3-methyl-3-pentanol		1649	2.037
2-(4-Methylphenyl)propan-2-ol	p-alpha, alpha-Trimethylbenzyl alcohol		1650	2.042
(+/-)-Ethyl 2-hydroxy-2-methylbutyrate			1651	
(+/-)-Ethyl 2-hydroxy-3-methylvalerate			1652	
2-Methyl-1-phenylpropan-2-ol	alpha, alpha-Dimethylphenethyl alcohol		1653	2.035
2-Methyl-1-phenyl-2-propyl formate	alpha, alpha-Dimethylphenethyl formate		1654	9.086
1,1-Dimethyl-2-phenethyl acetate	alpha, alpha-Dimethylphenethyl acetate		1655	9.227
1,1-Dimethyl-2-phenethyl butyrate	alpha, alpha-Dimethylphenethyl butyrate		1656	9.232
1-Methyl-1-phenethyl isobutyrate	alpha, alpha-Dimethylbenzyl isobutyrate		1657	9.509

أسم النكهة	أسماء أخرى	قيود الاستخدام	JECFA No.	FL No.
Hydrogen sulfide			1658	16.007
Ethanethiol			1659	12.017
Ethane-1,1-dithiol			1660	12.293
Dimercaptomethane			1661	12.243
Pentane-1-thiol	1-Pentanethiol		1662	12.191
Heptane-1-thiol	Heptane-1-thiol		1663	12.13
Heptan-2-thiol	2-Heptanethiol		1664	12.288
1-Phenylethylmercaptan	(+/-)-1-Phenylethylmercaptan		1665	12.289
2-Mercaptoanisole			1666	12.139
Propyl-2-mercaptopropionate			1667	12.267
Methionyl butyrate			1668	
4-Mercapto-4-methyl-2-pentanol	(+/-)-4-Mercapto-4-methyl-2-pentanol		1669	12.252
4,2-Thiopentanone	4-Mercapto-2-pentanone		1670	12.264
(S)-1-Methoxy-3-heptanethiol			1671	12.276
Di-isopentyl thiomalate	Diisopentyl thiomalate		1672	12.108
1-Mercapto-p-menthan-3-one	cis- and trans-Mercapto-p-menthan-3-one		1673	12.259
Methyl-3-mercaptoputanoate			1674	12.29
Methylthiomethylmercaptan			1675	12.242
Thioacetic acid			1676	
Isobutyl-3-(methylthio)butyrate	(+/-)-Isobutyl 3-methylthiobutyrate		1677	12.214
S-Methyl propanethioate	(S)-Methyl propanethioate		1678	12.165



أسم النكهة	أسماء أخرى	قيود الاستخدام	JECFA No.	FL No.
S-Isopropyl 3-methylbut-2-enethioate	(S)-Isopropyl 3-methylbut-2-enethioate		1679	12.134
(S)-Ethyl 2-acetylaminoethanethioate			1680	
Allyl thiohexanoate			1681	12.275
(E)-2-Methyl-1-methylthio-2-butene	2-Methyl-1-methylthio-2-butene		1683	12.265
2,4,6-Trithiaheptane			1684	12.24
2,8-Epithio-p-menthane	(+/-)-2,8-Epithio-cis-p-menthane		1685	12.12
3,5-Diethyl-1,2,4-trithiolane	(+/-)-3,5-Diethyl-1,2,4-trithiolane		1686	15.049
3,6-Diethyl-1,2,4,5-tetrathiane and 3,5-diethyl-1,2,4-trithiolane mix in vegetable oil triglycerides	Mixture of 3,6-diethyl-1,2,4,5-tetrathiane (approx. 55%) and 3,5-diethyl-1,2,4-trithiolane (approx. 45%)		1687	12.274
3-Methylthio-2-butanone			1688	12.285
4-Methylthio-2-pentanone			1689	12.286
Methyl 3-(methylthio)butanoate			1690	12.287
Methyl (methylthio)acetate			1691	12.146
3-(Methyl thio)heptanal	(+/-)-3-(Methylthio) heptanal		1692	12.273
Methyl ethyl disulfide			1693	12.153
Ethyl propyl disulfide			1694	12.126
Ethyl propyl trisulfide			1695	12.256
Isopentyl methyl disulfide			1696	12.294

أسم النكهة	أسماء أخرى	قيود الاستخدام	JECFA No.	FL No.
Amyl methyl disulfide			1697	12.253
Butyl ethyl disulfide			1698	12.254
Diethyl disulfide			1699	12.012
Allyl propyl disulfide			1700	12.021
Diethyl trisulfide			1701	12.114
Propyl propanethiosulfonate			1702	12.272
(+/-)-3-(Ethylthio) butanol			1703	
Hexyl 3-mercaptobutanoate			1704	12.292
(+/-)-3-Mercapto-1-butyl acetate			1705	
3-Mercapto-3-methyl-1-butyl acetate			1706	
2,5-Dithiahexane			1707	
3-Mercaptoheptyl acetate			1708	12.297
bis(1-Mercaptopropyl)sulphide			1709	12.284
S-allyl-L-cysteine			1710	17.036
2,4-Dimethyl-1,3-dioxolane			1711	6.077
2-Hexyl-4,5-dimethyl-1,3-dioxolane			1712	6.089
Ethyl 2,4-dimethyl-1,3-dioxolane-2-acetate	Cis- and trans-Ethyl 2,4-dimethyl-1,3-dioxolane-2-acetate		1715	6.087
Dihydroxyacetone dimer			1716	
1-Hydroxybutan-2-one			1717	7.09
Ethyl 3-acetoxy-2-			1718	9.919

أسم النكهة	أسماء أخرى	قيود الاستخدام	JECFA No.	FL No.
methylbutyrate				
Methyl 5-acetoxylhexanoate			1719	9.632
(+/-) 1-Acetoxy-1-ethoxyethane			1726	
Acetaldehyde hexyl isoamyl acetal			1727	
1,1-Dimethoxyhex-2(trans)-ene	1,1-Dimethoxy-trans-2-hexene		1728	6.072
1,1-Di-isopentyloxyethane	Acetaldehyde diisoamyl acetal		1729	6.055
1,1-Diethoxy-3-methylbutane	Isovaleraldehyde diethyl acetal		1730	6.059
Valeraldehyde dibutyl acetal			1731	
2-Isobutyl-4-methyl-1,3-dioxolane	Isovaleraldehyde propyleneglycol acetal		1732	6.135
Isovaleraldehyde glyceryl acetal			1733	
Valeraldehyde propyleneglycol acetal			1734	
Hexanal hexyl isoamyl acetal			1735	
Hexanal octane-1,3-diol acetal			1736	
Hexanal butane-2,3-diol acetal			1737	
Hexanal dihexyl acetal			1738	
Heptanal propyleneglycol			1739	

أسم النكهة	أسماء أخرى	قيود الاستخدام	JECFA No.	FL No.
acetal				
2,6-Dimethyl-5-heptenal propyleneglycol acetal			1740	
Octanal propyleneglycol acetal			1741	
Nonanal dimethyl acetal			1742	
Nonanal propyleneglycol acetal			1743	
Decanal propyleneglycol acetal			1744	
Undecanal propyleneglycol acetal			1745	
Dodecanal dimethyl acetal			1746	
Acetaldehyde di-cis-3- hexenyl acetal			1747	
Isobutanal propyleneglycol acetal			1748	
Acetaldehyde 1,3-octanediol acetal			1749	
1-(3-Hydroxy-5-methyl-2- thienyl) ethanone			1750	
2-(4-Methyl-5-thiazolyl) ethyl formate			1751	
2-(4-Methyl-5-thiazolyl) ethyl propionate			1752	
2-(4-Methyl-5-thiazolyl)			1753	

أسم النكهة	أسماء أخرى	قيود الاستخدام	JECFA No.	FL No.
ethyl butanoate				
2-(4-Methyl-5-thiazolyl) ethyl isobutyrate			1754	
2-(4-Methyl-5-thiazolyl) ethyl hexanoate			1755	
2-(4-Methyl-5-thiazolyl) ethyl octanoate			1756	
2-(4-Methyl-5-thiazolyl) ethyl decanoate			1757	
2,5-Dimethylthiazole			1758	15.063
2-Acetyl-2-thiazoline			1759	15.01
2-Propionyl-2-thiazoline			1760	15.128
5-Ethyl-4-methyl-2-(2-methylpropyl)-thiazoline	cis- and trans-5-Ethyl-4-methyl-2-(2-methylpropyl)thiazoline		1761	15.13
5-Ethyl-4-methyl-2-(2-butyl)-thiazoline	cis- and trans-5-Ethyl-4-methyl-2-(1-methylpropyl)thiazoline		1762	15.131
2,4-Dimethyl(4H)pyrrolidino[1,2e]-1,3,5-dithiazine	Pyrrolidino-[1,2e]-4H-2,4-dimethyl-1,3,5-dithiazine		1763	15.055
2-Hexylthiophene			1764	15.076
3-(Methylthio)-methylthiophen			1765	15.126
5-Acetyl-2,3-dihydro-1,4-thiazine			1766	

أسم النكهة	أسماء أخرى	قيود الاستخدام	JECFA No.	FL No.
N-(1-Propylbutyl)-1,3-benzodioxole-5-carboxamide	N-(Heptan-4-yl) benzo [d] [1,3] dioxole-5- carboxamide		1767	16.098
N-(2,4-Dimethoxy-benzyl)-N'-(2-pyridin-2-yl-ethyl)-oxalamide	N1-(2,4-Dimethoxybenzyl)-N2-(2-(pyridin-2-yl) ethyl) oxalamide		1768	16.099
N1-(2-Methoxy-4-methylbenzyl)-N2-(2-(5-methylpyridin-2-yl)ethyl)oxalamide			1769	16.1
N1-(2-Methoxy-4-methylbenzyl)-N2-(2-(pyridin-2-yl)ethyl)oxalamide			1770	16.101
4-Amino-butyric acid			1771	17.035
2,3,4,5,6-Pentahydroxy-N-(2-hydroxyethyl)-hexanamide	N-Gluconyl ethanolamine		1772	16.102
(2R,3S,4S,5R)-2-[(2,3,4,5,6-Pentahydroxyhexanoyl)amino]ethyl dihydrogen phosphate	N-Gluconyl ethanolamine phosphate		1773	16.105
Propanamide, 2-hydroxy-N-(2-hydroxyethyl)-.	N-Lactoyl ethanolamine		1774	16.103
2-[(2-Hydroxypropanoyl)amino]ethyl dihydrogen phosphate	N-Lactoyl ethanolamine phosphate		1775	16.104
Glycine, N-[[[(1R,2S,5R)-5-	N-[(Ethoxycarbonyl) methyl]-		1776	16.111

أسم النكهة	أسماء أخرى	قيود الاستخدام	JECFA No.	FL No.
methyl-2-(1-methylethyl)cyclohexyl]carbonyl]-, ethyl ester.	p-menthane-3-carboxamide			
3-(3,4-Dimethoxyphenyl)-N-[2-(3,4-dimethoxyphenyl)-ethyl]-acrylamide	N-[2-(3,4-Dimethoxyphenyl)ethyl]-3,4-dimethoxycinnamic acid amide		1777	16.09
Cyclopropanecarboxamide, N-[(2E)-3,7-dimethyl-2,6-octadien-1-yl]-	N-3,7-Dimethyl-2,6-octadienyl cyclopropylcarboxamide		1779	16.1
Hexa-2,4-dienyl acetate	2,4-Hexadienyl acetate		1780	9.573
2,4-Hexadienyl propionate			1781	
2,4-Hexadienyl isobutyrate			1782	
2,4-Hexadienyl butyrate			1783	
Hepta-2,4-dien-1-ol	2,4-Heptadien-1-ol		1784	2.153
Nona-2,4,6-trienal			1785	5.173
Deca-2,4,7-trienal	2,4,7-Decatrienal		1786	5.141
Pent-2-en-1-ol	(Z)-2-Penten-1-ol		1793	2.05
Dec-2-en-1-ol	(E)-2-Decen-1-ol		1794	2.137
Pent-2-enyl hexanoate	(Z)-Pent-2-enyl hexanoate		1795	9.678
2-Hexenyl octanoate	(E)-2-Hexenyl octanoate		1796	9.841
trans-2-Hexenyl 2-methylbutyrate			1797	
Hept-2-enyl acetate	Hept-trans-2-en-1-yl acetate		1798	9.385
Hept-2-enyl isovalerate	(E,Z)-Hept-2-en-1-yl isovalerate		1799	9.303
trans-2-Hexenal glyceryl			1800	

أسم النكهة	أسماء أخرى	قيود الاستخدام	JECFA No.	FL No.
acetal				
trans-2-Hexenal propylene glycol acetal			1801	
1-Methoxy-1-decene	cis- and trans-1-Methoxy-1-decene		1802	3.022
(E)-Tetradec-2-enal			1803	5.179
(E)-Pent-2-enoic acid	(E)-2-Pentenoic acid		1804	8.107
2-Octenoic acid	(E)-2-Octenoic acid		1805	8.114
Ethyl trans-2-butenolate			1806	
Hexyl (2E)-butenoate	Hexyl 2-butenolate		1807	9.266
Ethyl trans-2-hexenoate			1808	9.85
(E,Z)-Methyl 2-hexenoate			1809	
Hexyl 2-hexenoate	Hexyl trans-2-hexenoate		1810	9.292
Methyl oct-2(trans)-enoate	Methyl trans-2-octenoate		1811	9.299
Ethyl oct-2(trans)-enoate	Ethyl trans-2-octenoate		1812	9.285
Methyl non-2-enoate	(E,Z)-Methyl 2-nonenoate		1813	9.234
(E)-Ethyl dec-2-enoate	Ethyl trans-2-decenoate		1814	9.283
Ethyl (E)-2-methyl-2-pentenoate			1815	
2-Methylbutyl 3-methyl-2-butenolate			1816	
(+/-)(E,Z)-5-(2,2,-Dimethylcyclopropyl)-3-methyl-2-pentenal			1817	
4-Methylpent-2-enoic acid	(E,Z)-4-Methylpent-2-enoic acid		1818	8.099



أسم النكهة	أسماء أخرى	قيود الاستخدام	JECFA No.	FL No.
4-Ethyl octanal	(+/-)-4-Ethyl octanal		1819	5.223
Geranyl 2-methylbutyrate	(E)-Geranyl 2-methylbutyrate		1820	9.382
(E)-Geranyl valerate			1821	9.15
Geranyl 2-methylcrotonate	(E)-Geranyl tiglate		1822	9.383
Citronellyl 2-methylbut-2-enoate	(E)-Citronellyl 2-methylbut-2-enoate		1823	9.34
Ethyl 2-methylcrotonate	(E)-Ethyl tiglate		1824	9.495
Geranic acid	(E,Z)-Geranic acid		1825	8.081
Prenyl formate			1826	9.694
Prenyl acetate			1827	9.692
Prenyl isobutyrate			1828	9.695
Prenyl caproate			1829	
(+/-)-Dihydrofarnesol			1830	
3,7,11-Trimethyldodeca-2,6,10-trienyl acetate	(E,Z)-3,7,11-Trimethyldodeca-2,6,10-trienyl acetate		1831	9.818
Phytol	(E,Z)-Phytol		1832	2.204
Phytyl acetate	(E,Z)-Phytyl acetate		1833	9.691
Methyl methacrylate	Methyl 2-methyl-2-propenoate		1834	9.647
iso-Propenyl acetate			1835	9.822
Oct-1-en-3-yl acetate	1-Octen-3-yl acetate		1836	9.281
Oct-1-en-3-yl butyrate	1-Octen-3-yl butyrate		1837	9.282
6-Methyl-5-hepten-2-yl acetate			1838	9.938
3-(Hydroxymethyl)octan-2-one	3-(Hydroxymethyl)-2-octanone		1839	7.097
[R-(E)]-5-Isopropyl-8-	(+/-)-[R-(E)]-5-Isopropyl-8-		1840	7.239

أسم النكهة	أسماء أخرى	قيود الاستخدام	JECFA No.	FL No.
methylnona-6,8-dien-2-one	methylnona-6,8-dien-2-one			
4,8-Dimethyl-3,7-nonadien-2-ol	(+/-)-cis- and trans- 4,8-Dimethyl-3,7-nonadien-2-ol		1841	2.252
1-Hepten-3-ol	(+/-)-1-Hepten-3-ol		1842	2.155
(E,Z)-4-Octen-3-one			1843	
(E)-2-Nonen-4-one			1844	
(E)-5-Nonen-2-one			1845	
(3Z)-Hexenyl 2-oxopropionate	(Z)-3-Hexenyl 2-oxopropionate		1846	9.565
4,8-Dimethyl-3,7-nonadien-2-yl acetate	(+/-)- cis- and trans-4,8-Dimethyl-3,7-nonadien-2-yl acetate		1847	9.936
Octa-1,5-dien-3-one	(E)-1,5-Octadien-3-one		1848	7.19
10-Undecen-2-one			1849	
2,4-Dimethyl-4-nonanol			1850	2.253
8-Nonen-2-one			1851	
Menthyl valerate			1852	9.154
1-Menthoxyethanol	2-(1-Menthoxy)ethanol		1853	2.247
1-Menthyl acetoacetate			1854	
1-Menthyl (R,S)-3-hydroxybutyrate			1855	
1-Piperitone			1856	7.255
2,6,6-Trimethylcyclohex-2-en-1,4-dione			1857	7.109
Menthyl pyrrolidone carboxylate			1858	

أسم النكهة	أسماء أخرى	قيود الاستخدام	JECFA No.	FL No.
6-Isopropyl-3,9-dimethyl-1,4-dioxyspiro[4.5]decan-2-one	3,9-Dimethyl-6-(1-methylethyl)-1,4-dioxaspiro-[4,5]-decan-2-one		1859	6.136
8-p-Menthene-1,2-diol			1860	
d-2,8-p-Menthadien-1-ol			1861	
Dehydronootkatone			1862	
Isobornyl isobutyrate			1863	9.584
(-)-bornyl acetate	l-Bornyl acetate		1864	9.848
Thujyl alcohol			1865	2.207
Vetiverol			1866	2.214
Vetiveryl acetate			1867	9.821
Isopinocamphe	3-Pinanone		1868	7.171
Isobornyl 2-methylbutyrate			1869	9.888
Pin-2-en-4-one	Verbenone		1870	7.196
Methyl hexanoate			1871	9.069
Hexyl heptanoate			1872	
Hexyl nonanoate			1873	
Hexyl decanoate			1874	
Heptyl heptanoate			1875	
Dodecyl propionate			1876	
Dodecyl butyrate			1877	
4-Hydroxy-3,5-dimethoxybenzaldehyde			1878	5.153
Vanillin 3-(1-menthoxy)propane-1,2-diol acetal			1879	2.248

أسم النكهة	أسماء أخرى	قيود الاستخدام	JECFA No.	FL No.
Sodium 4-methoxybenzoyloxyacetate			1880	
6,6'-Dihydroxy-5,5'-dimethoxy-biphenyl-3,3'-dicarbaldehyde	Divanillin		1881	5.221
Vanillin propylene glycol acetal			1882	6.104
4-Methoxybenzoyloxyacetic acid			1883	
Methyl isothiocyanate			1884	
Ethyl isothiocyanate			1885	
Isobutyl thiocyanate			1886	
Isoamyl isothiocyanate			1887	
Isopropyl isothiocyanate			1888	
3-Butenyl isothiocyanate			1889	12.28
2-Butyl isothiocyanate			1890	
Amyl isothiocyanate			1891	
4-(Methylthio)butyl isothiocyanate			1892	
4-Pentenyl isothiocyanate			1893	
5-Hexenyl isothiocyanate			1894	
Hexyl isothiocyanate			1895	
5-(Methylthio)pentyl isothiocyanate			1896	
6-(Methylthio)hexyl isothiocyanate			1897	

أسم النكهة	أسماء أخرى	قيود الاستخدام	JECFA No.	FL No.
Methyl dihydrojasmonate			1898	
4-(2,2,3-Trimethylcyclopentyl)butanoic acid			1899	
(2,4) and (3,5) and (3,6)-Dimethyl-3-cyclohexenylcarbaldehyde			1900	
Perillaldehyde propylenglycol acetal			1901	
(+/-) cis-and trans-1,2-Dihydroperillaldehyde			1902	
d-Limonen-10-ol			1903	
p-Menthan-7-ol			1904	
p-Menth-1-en-9-ol			1905	
1,3-p-Menthadien-7-al			1906	
cis-2-Heptyl-cyclopropanecarboxylic acid	cis-and trans-2-Heptylcyclopropanecarboxylic acid		1907	8.131
(+/-)-cis- and trans-2-Methyl-2-(4-methyl-3-pentenyl)cyclopropanecarbaldehyde			1908	
Methyl octyl sulfide			1909	
Methyl 1-propenyl sulfide			1910	
Di-(1-propenyl)-sulfide (mixture of isomers)			1911	

أسم النكهة	أسماء أخرى	قيود الاستخدام	JECFA No.	FL No.
Ethyl 2-hydroxyethyl sulfide			1912	
2-(Methylthio)ethyl acetate			1913	
Ethyl 3-(methylthio)-cis-2-propenoate			1915	
Ethyl 3-(methylthio)-trans-2-propenoate			1916	
Ethyl 3-(methylthio)-2-propenoate			1917	
4-Methyl-2-(methylthiomethyl)2-pentenal			1918	
4-Methyl-2-(methylthiomethyl)2-hexenal			1919	
5-Methyl-2-(methylthiomethyl)2-hexenal			1920	
Butyl beta-(methylthio)acrylate			1921	
Ethyl 3-(ethylthio)butyrate			1922	
2-Oxothiolane			1923	
Dodecanethiol			1924	
2-Hydroxyethanethiol			1925	
4-Mercapto-4-methyl-2-hexanone			1926	
3-Mercapto-3-methylbutyl isovalerate			1927	
(+/-) Ethyl 3-mercapto-2-			1928	

أسم النكهة	أسماء أخرى	قيود الاستخدام	JECFA No.	FL No.
methylbutanoate				
3-Mercaptohexanal			1929	
Diisoamyl disulfide			1930	
Mixture of butyl propyl disulfide and propyl and butyl disulfide			1932	
di-sec-Butyl disulfide			1933	
Diisoamyl trisulfide			1934	
Methyl 2-methylphenyl disulfide			1935	
3-Mercaptopropionic acid			1936	
Methyl isobutanethioate			1937	
2-Ethylhexyl 3-mercaptopropionate			1938	
Methional diethyl acetal			1940	
1-(3-(Methylthio)-butyryl)-2,6,6-trimethylcyclohexene			1942	
Hydroxyacetone			1945	
Propyl pyruvate			1946	
Methyl 3-hydroxybutyrate			1947	
Dodecyl lactate			1948	
(+/-) Ethyl 3-hydroxy-2-methylbutyrate			1949	
Hexadecyl lactate			1950	
Methyl 3-acetoxy-2-methylbutyrate			1951	

أسم النكهة	أسماء أخرى	قيود الاستخدام	JECFA No.	FL No.
1-Hydroxy-4-methyl-2-pentanone			1952	
Ethyl 2-acetylhexanoate			1953	
3-Isopropenyl-6-oxoheptanoic acid			1954	
Ethyl 3-hydroxyoctanoate			1955	
Methyl 3-acetoxyoctanoate			1956	
5-Oxoctanoic acid			1957	
Ethyl 2-acetyloctanoate			1958	
Ethyl 5-acetoxyoctanoate			1959	
5-Oxodecanoic acid			1960	
Ethyl 5-oxodecanoate			1961	
Ethyl 5-hydroxydecanoate			1962	
5-Oxododecanoic acid			1963	
Dimethyl adipate			1964	
Dipropyl adipate			1965	
Diisopropyl adipate			1966	
Diisobutyl adipate			1967	
Bis(2-ethylhexyl)adipate (dioctyl adipate)	Dioctyl adipate		1968	9.951
Ethyl acetate ethyleneglycol ketal			1969	
Methyl levulinate			1970	
Propyl levulinate			1971	
Isoamyl levulinate			1972	



أسم النكهة	أسماء أخرى	قيود الاستخدام	JECFA No.	FL No.
cis-3-Hexenyl acetoacetate			1974	
Hydroxycitronellal propyleneglycol acetal			1975	
Propyleneglycol diacetate			1976	
6-(5(6)- Decenoyloxy)decanoic acid			1977	
Propyleneglycol dipropionate			1978	
Propyleneglycol monobutyrate			1979	
Propyleneglycol dibutyrate			1980	
Propyleneglycol mono-2- methylbutyrate			1981	
Propyleneglycol di-2- methylbutyrate			1982	
Propyleneglycol monohexanoate			1983	
Propyleneglycol dihexanoate			1984	
Propyleneglycol dioctanoate			1985	
2-Oxo-3-ethyl-4-butanolide			1986	
Ethyl 5-hydroxyoctanoate			1987	
5-Pentyl-3H-furan-2-one			1989	10.17
5-Hydroxy-4- methylhexanoic acid delta- lactone			1990	
Hexadec-9-en-1,16 lactone	Isoambrettolide		1991	10.06

أسم النكهة	أسماء أخرى	قيود الاستخدام	JECFA No.	FL No.
7-Decen-4-olide			1992	
9-Decen-5-olide			1993	
8-Decen-5-olide			1994	
Orin Lactone			1995	
9-Dodecen-5-olide			1996	
9-Tetradecen-5-olide			1997	
gamma-Octadecalactone			1998	
delta-Octadecalactone			1999	
4-Hydroxy-2-butenic acid gamma-lactone			2000	
2-Nonenoic acid gamma- lactone			2001	
4-Hydroxy-2,3-dimethyl- 2,4-nonadienoic acid gamma-lactone			2002	
Choline chloride (also includes choline)			2003	
3-(Methylthio)proylamine			2004	
Cyclopropanecarboxylic acid (2-isopropyl-5-methyl- cyclohexyl)-amide			2006	16.115
N-(2-(Pyridine-2-yl)ethyl)-3- p-menthancarboxamide			2008	16.118
N-p-Benzeneacetonitrile- menthancarboxamide			2009	16.117
4-Propenylphenol			2012	

أسم النكهة	أسماء أخرى	قيود الاستخدام	JECFA No.	FL No.
2,4,6-Trimethylphenol			2013	
Sodium 3-methoxy-4-hydroxycinnamate			2014	
Guaiacol butyrate			2015	
Guaiacol isobutyrate			2016	
Guaiacol propionate			2017	
4-(2-Propenyl)phenyl-beta-D-glucopyranoside			2018	
Phenyl butyrate			2019	
Hydroxy(4-hydroxy-3-methoxyphenyl)acetic acid			2020	
1-(4-Hydroxy-3-methoxyphenyl)-3-decanone	1-(4-Hydroxy-3-methoxyphenyl)decan-3-one		2021	7.234
3-(4-Hydroxy-phenyl)-1-(2,4,6-trihydroxy-phenyl)-propan-1-one			2022	
Magnolol			2023	
5,7-Dihydroxy-2-(3-hydroxy-4-methoxy-phenyl)-chroman-4-one			2024	
Dimethyl benzyl carbinyol crotonate			2025	
Dimethylbenzyl carbinyol hexanoate			2026	
Caryophyllene alcohol			2027	
Cubebol			2028	

أسم النكهة	أسماء أخرى	قيود الاستخدام	JECFA No.	FL No.
(-)-Sclareol			2029	
(+)-Cedrol			2030	
alpha-Bisabolol			2031	
3-Methylnona-2,4-dione	3-Methyl-2,4-nonedione		2032	7.184
Acetoin propyleneglycol ketal			2033	
3-Hydroxy-5-methyl-2-hexanone or 2-Hydroxy-5-methyl-2-hexanone			2034	
3-Hydroxy-2-octanone			2035	
Octan-2,3-dione			2036	
4,5-Octanedione			2037	
(+/-) 2-Hydroxypiperitone			2038	
1,1'-(Tetrahydro-6a-hydroxy-2,3a,5-trimethylfuro[2,3-d]-1,3-dioxole-2,5-diyl)bis-ethanone			2039	
4-Hydroxyacetophenone			2040	
3-Hydroxy-4-phenylbutane-2-one			2041	7.242
2-Methoxyacetophenone			2042	
2-Aminoacetophenone			2043	
2-Methyl-acetophenone	2-Methylacetophenone		2044	7.259
2-Hydroxy-5-methylacetophenone			2045	

أسم النكهة	أسماء أخرى	قيود الاستخدام	JECFA No.	FL No.
2,3,3-Trimethylindanone			2047	
4-(3,4-Methylenedioxyphenyl)-2-butanone			2048	
2-(trans-2-Pentenyl)cyclopentanone			2049	
2-Cyclopentylcyclopentanone			2050	
Cyclohexanone diethyl ketal			2051	
2-Cyclohexenone			2052	
3,3,5-Trimethylcyclohexyl acetate			2053	
2,6,6-Trimethyl-2-hydroxycyclohexanone			2054	
Cyclotene propionate			2055	
Cyclotene butyrate			2056	
4-(2-Butenylidene)-3,5,5-trimethylcyclohex-2-en-1-one			2057	
4-Hydroxy-4-(3-hydroxy-1-butenyl)-3,5,5-trimethyl-2-cyclohexen-1-one			2058	
8,9-Dehydrotheaspirone			2059	
(+/-)2,6,10,10-Tetramethyl-1-oxaspiro[4.5]deca-2,6-dien-8-one			2060	

أسم النكهة	أسماء أخرى	قيود الاستخدام	JECFA No.	FL No.
Benzyl hexanoate			2061	
o-Anisaldehyde			2062	
Prenyl benzoate			2063	
Benzyl levulinate			2064	
4-Methylbenzyl alcohol			2065	
Benzyl nonanoate			2066	
4-Methylbenzaldehyde propyleneglycol acetal			2067	
2-Ethylhexyl benzoate			2068	
(+/-) Octan-3-yl formate			2070	
(R)-(-)-1-Octen-3-ol			2071	
2-Pentyl 2-methylpentanoate			2072	
3-Octyl butyrate			2073	
2-Decanone			2074	
6-Methyl-5-hepten-2-one propyleneglycol acetal			2075	
2-Nonanone propyleneglycol acetal			2076	
(2E,6E/Z,8E)-N-(2- Methylpropyl)-2,6,8- decatrienamide			2077	
(2S,5R)-N-[4-(2-Amino-2- oxoethyl)phenyl]-5- methyl- 2-(propan-2- yl)cyclohexanecarboxamide			2078	
(1R,2S,5R)-N-(4-			2079	

أسم النكهة	أسماء أخرى	قيود الاستخدام	JECFA No.	FL No.
Methoxyphenyl)-5-methyl-2-(1-methylethyl)cyclohexanecarboxamide				
N-Cyclopropyl-5-methyl-2-isopropylcyclohexanecarboxamide			2080	
N-(2-Methylcyclohexyl)-2,3,4,5,6-Pentafluorobenzamide			2081	
3[(4-Amino-2,2-dioxido-1H-2,1,3-benzothiadiazin-5-yl)oxy]-2,2-dimethyl-N-propylpropanamide			2082	
3-Pentanethiol			2083	
4-Mercapto-3-methyl-2-butanol			2084	
Ethyl 2-mercapto-2-methylpropionate			2085	
1-(Methylthio)-3-octanone			2086	
1,1-Propanedithiol			2087	
1-Methyldithio-2-propanone			2088	
4-Methyl-2-propyl-1,3-oxathiane			2089	
5-Methylfurfuryl mercaptan			2090	
2-Methyl-3-furyl			2091	

أسم النكهة	أسماء أخرى	قيود الاستخدام	JECFA No.	FL No.
methylthiomethyl disulfide				
2-Methyl-3-furyl 2-methyl-3-tetrahydrofuryl disulfide			2092	
Methyl 3-(furfurylthio)propionate			2094	
3-[(2-Methyl-3-furyl)thio]butanal			2095	
1-(2-Furfurylthio)-propanone			2096	
2-Methyl-4,5-dihydrofuran-3-thiol			2097	
2-Methyltetrahydrofuran-3-thiol acetate			2098	
5-Methylfurfuryl alcohol			2099	
Furfural propyleneglycol acetal			2100	
Furfuryl formate			2101	
Furfuryl decanoate			2102	
(E)-Ethyl 3-(2-furyl)acrylate			2103	
Di-2-furylmethane			2104	
2-Methylbenzofuran			2105	
2-Pentylthiophene			2106	
2-Acetyl-5-methylthiophene			2107	
2-Pentylthiazole			2108	
4,5-Dimethyl-2-isobutylthiazole			2109	



أسم النكهة	أسماء أخرى	قيود الاستخدام	JECFA No.	FL No.
3,4-Dimethylthiophene			2110	
2-Thienylmethanol			2111	
1-(2-Thienyl)ethanethiol			2112	
5-Ethyl-2-methylthiazole			2113	
2-Ethyl-2,5-dihydro-4-methylthiazole			2114	
4-Methyl-3-thiazoline			2115	
2-Ethyl-4,6-dimethyldihydro-1,3,5-dithiazine			2116	
4-Amino-5,6-dimethylthieno[2,3-d]pyrimidin-2(1H)-one hydrochloride			2117	
L-Isoleucine			2118	
L-Threonine			2119	
L-Ornithine (as the monochlorohydrate)			2120	
L-Alanyl-L-glutamine			2121	
L-Methionylglycine			2122	
Glutamyl-valyl-glycine			2123	
Isopropenylpyrazine			2125	
5-Ethyl-2,3-dimethylpyrazine			2126	
2-Methyl-5-vinylpyrazine			2127	
Aixture of 2,5-dimethyl-6,7-			2128	

أسم النكهة	أسماء أخرى	قيود الاستخدام	JECFA No.	FL No.
dihydro-5Hcyclopentapyrazine' and 2,7-dimethyl-6,7- dihydro-5H-cyclopentapyrazine				
3,5- and 3,6-Dimethyl-2-isobutylpyrazine			2130	
2-Ethoxy-3-ethylpyrazine 2			2131	
-Ethyl-3-methylthiopyrazine			2132	
3,6-Dimethyl-2,3,3a,4,5,7ahexahydrobenzo furan			2133	
Ethyl linalyl ether			2134	
Linalool oxide pyranoid			2135	
Isoamyl phenethyl ether			2136	
Methyl hexyl ether			2138	
Myrcenyl methyl ether			2139	
5-Isopropyl-2,6-diethyl-2-methyltetrahydro-2H-pyran			2140	
Butil $\beta$ -naphthyl ether			2141	
Digeranyl ether			2142	
Ethyl $\alpha$ -ethyl- $\beta$ -methyl- $\beta$ -phenylglycidate			2143	
Methyl $\beta$ -phenylglycidate			2144	
d-8-p-Menthene-1,2-epoxide			2145	
l-8-p-Menthene-1,2-epoxide			2146	
2-Acetyl-4-			2155	

أسم النكهة	أسماء أخرى	قيود الاستخدام	JECFA No.	FL No.
isopropylpyridine				
6-Methoxyquinoline			2157	
3-(1-((3,5-Dimethylisoxazol-4-yl)methyl)-1Hpyrazol-4-yl)-1-(3-hydroxybenzyl)-imidazolidine-2,4-dione			2161	
3-(1-((3,5-Dimethylisoxazol-4-yl)methyl)-1Hpyrazol-4-yl)-1-(3-hydroxybenzyl)-5,5-dimethylimidazolidine-2,4-dione			2162	
trans-2-Nonenyl acetate			2163	
N Propyl sorbate			2164	
cis-2-Octenol			2165	
trans-2-Tridecenol			2166	
Ethyl 2-hexenoate (mixture of isomers)			2167	
3',7-Dihydroxy-4-methoxyflavan			2170	
Trilobatin			2171	
(±)-Eriodictyol			2172	
3-Methylhexanal			2173	
6-Methylheptanal			2174	
6-Methyloctanal			2175	
3,7-Dimethyloctanal			2176	
cis-3-Nonen-1-ol			2177	

أسم النكهة	أسماء أخرى	قيود الاستخدام	JECFA No.	FL No.
trans-3-Nonen-1-ol			2178	
cis,cis-3,6-Nonadienyl acetate			2179	
trans-3-Hexenyl acetate			2180	
cis-3-Hexenoic acid			2181	
cis-3-Nonenyl acetate			2182	
cis-6-Nonenyl acetate			2183	
(Z)-5-Octenyl acetate			2184	
(E)-4-Undecenal			2185	
Limonene				1.001
Vinylbenzene				1.015
Bisabola-1,8,12-triene				1.027
beta-Bisabolene				1.028
2,2-Dimethylhexane				1.033
2,4-Dimethylhexane				1.034
2,6-Dimethylocta-2,4,6-triene				1.035
Dodecane				1.038
delta-Elemene				1.039
l-Limonene				1.046
Pentadecane				1.054
Tetradecane				1.057
4(10)-Thujene				1.059
cis-3,7-Dimethyl-1,3,6-octatriene				1.064
1-Octene			2191	1.07

أسم النكهة	أسماء أخرى	قيود الاستخدام	JECFA No.	FL No.
2-Methylbutan-2-ol				2.041
2-Ethylbutan-1-ol				2.043
2-Methylpropan-2-ol				2.052
p-Menthane-1,8-diol				2.054
Cyclohexanol				2.07
(1R,2S,5S)-neo-Dihydrocarveol				2.075
Pentan-3-ol				2.077
Cedrenol				2.119
(+)-Cedrol				2.12
Butan-2-ol				2.121
p-Mentha-1,8(10)-dien-9-ol				2.122
2-Methylbut-3-en-2-ol				2.123
6-Methylhept-5-en-2-ol				2.124
Undec-10-en-1-ol				2.125
Tetradecan-1-ol				2.126
(l)-alpha-Bisabolol				2.129
But-3-en-2-ol				2.131
Butane-1,3-diol				2.132
Butane-2,3-diol				2.133
2-Cyclohexylethan-1-ol				2.134
Cyclopentanol				2.135
Dec-9-en-1-ol				2.138
1,2-Dihydrolinalool				2.14
3,3-Dimethylbutan-2-ol				2.142
2,6-Dimethyloct-7-en-2-ol				2.144

أسم النكهة	أسماء أخرى	قيود الاستخدام	JECFA No.	FL No.
2,6-Dimethylocta-1,5,7-trien-3-ol				2.145
(E)-3,7-Dimethylocta-1,5,7-trien-3-ol				2.146
3,6-Dimethyloctan-3-ol				2.147
Dodecan-2-ol				2.148
(-)-alpha-Elemol				2.149
(E,E)-geranyl linalool				2.15
Hept-3-en-1-ol				2.152
Heptadecan-1-ol				2.154
4-Hydroxy-3,5-dimethoxybenzyl alcohol				2.164
2-(4-Hydroxyphenyl)ethan-1-ol				2.166
(1R,2R,5S)-Isodihydrocarveol				2.167
Isophytol				2.168
(R)-(-)-Lavandulol				2.17
p-Menthan-8-ol				2.171
3-(4-Methoxyphenyl)propan-1-ol				2.173
2-Methylbut-2-en-1-ol				2.174
2-Methylbut-3-en-1-ol				2.175
3-Methylbut-3-en-1-ol				2.176
2-Methylhexan-3-ol				2.177
2-Methyloctan-1-ol				2.178

أسم النكهة	أسماء أخرى	قيود الاستخدام	JECFA No.	FL No.
4-Methylpentan-1-ol				2.18
2-Methylpentan-2-ol				2.181
3-Methylpentan-2-ol				2.182
4-Methylpentan-2-ol				2.183
3-Methylpentan-3-ol				2.184
Myrtanol				2.186
Non-1-en-3-ol				2.187
Nonan-3-ol				2.19
Oct-2-en-1-ol				2.192
Octa-1,5-dien-3-ol				2.194
Octa-(3Z,5E)-dien-1-ol				2.195
Octadecan-1-ol				2.196
1,2,3,4,4a,5,6,7-Octahydro-2,5,5-trimethylnaphthalen-2-ol				2.197
Octane-1,3-diol				2.198
Pent-4-en-1-ol				2.201
Pentadecan-1-ol				2.202
2-Phenylpropan-2-ol				2.203
Piperonyl alcohol				2.205
(-)-Sclareol				2.206
Undeca-1,5-dien-3-ol				2.211
12-beta-Santalen-14-ol				2.216
12-alpha-Santalen-14-ol				2.217
2,6-Dimethyl-2-heptanol				2.219
3-Pentenol-1				2.222

أسم النكهة	أسماء أخرى	قيود الاستخدام	JECFA No.	FL No.
[S-(cis)]-3,7,11-Trimethyl-1,6,10-dodecatrien-3-ol				2.226
(-)-3,7-Dimethyl-6-octen-1-ol				2.229
Terpineol				2.23
trans-2, cis-6-Nonadien-1-ol				2.231
(Z)-Non-3-en-1-ol				2.234
2-Butoxyethan-1-ol				2.242
(Z)-4-Hepten-2-ol				2.255
2-Acetoxy-1,8-cineole				3.008
Benzyl methyl ether				3.011
Benzyl octyl ether				3.012
Ethyl geranyl ether				3.015
Hexyl methyl ether				3.016
alpha-Terpinyl methyl ether				3.02
1-Ethoxyethyl acetate				3.023
Digeranyl ether				3.024
3,5-Dimethylphenol				4.02
3-Ethylphenol				4.021
Benzene-1,2-diol				4.029
Carvacryl methyl ether				4.059
2,6-Dimethoxy-4-vinylphenol				4.061
2,3-Dimethylphenol				4.065
2,4-Dimethylphenol				4.066
1-Ethoxy-2-methoxybenzene				4.067



أسم النكهة	أسماء أخرى	قيود الاستخدام	JECFA No.	FL No.
1-Ethoxy-4-methoxybenzene				4.068
1-Ethyl-4-methoxybenzene				4.069
2-Ethylphenol				4.07
3-Isopropylphenol				4.072
4-Isopropylphenol				4.073
1-Methoxynaphthalene				4.075
3-Methoxyphenol				4.076
4-Methoxyphenol				4.077
5-Methyl-2-(tert-butyl)phenol				4.078
Methyl 4-methoxybenzyl ether				4.079
1,2,3-Trimethoxybenzene				4.084
1-Methoxy-4-(1-propenyl)benzene				4.088
Ethyl 4-hydroxybenzyl ether				4.091
4-Hydroxybenzyl methyl ether				4.092
2,4,6-Trimethyl phenol				4.095
4-Prop-1-enylphenol				4.097
o-Tolualdehyde				5.026
m-Tolualdehyde				5.028
p-Tolualdehyde				5.029
2,4,6-Trimethyl-1,3,5-trioxane				5.053
Oct-6-enal				5.061

أسم النكهة	أسماء أخرى	قيود الاستخدام	JECFA No.	FL No.
4-Ethoxy-3-methoxybenzaldehyde				5.066
trans-2-Nonenal				5.072
2,4-Decadienal				5.081
(Z,Z)-3,6-Dodecadienal				5.082
2-Methoxybenzaldehyde				5.129
2-Methyl-3-tolylpropionaldehyde (mixed o,m,p-)				5.134
Dec-4(cis)-enal				5.137
3,4-Dihydroxybenzaldehyde				5.142
2,5-Dimethyl-2-vinylhex-4-enal				5.143
Dodec-2(trans)-enal				5.144
2-Ethylhexanal				5.147
Glutaraldehyde				5.149
Hexadecanal				5.152
(E)-4-Hydroxy-3,5-dimethoxycinnamaldehyde				5.154
4-Hydroxy-3-methoxycinnamaldehyde (mixture of isomers)				5.155
3-(4-Hydroxy-3-methoxyphenyl)propanal				5.156
Isocyclocitral				5.157
3-Methoxybenzaldehyde				5.158

أسم النكهة	أسماء أخرى	قيود الاستخدام	JECFA No.	FL No.
p-Methoxyphenylacetaldehyde				5.159
2-Methyldecanal				5.16
2-Methylhexanal				5.164
4-Methylpentanal				5.166
12-Methyltetradecanal				5.167
Neral				5.17
2-Phenylpent-2-enal				5.175
2,6,6-Trimethylcyclohex-2-ene-1-carboxaldehyde				5.182
4-(2,6,6-Trimethylcyclohexenyl)-2-methylbutanal				5.183
Undec-2(trans)-enal				5.184
2,4-Octadienal				5.186
trans-3,7-Dimethylocta-2,6-dienal				5.188
2-Hexenal				5.189
trans-2-Octenal				5.19
trans-2-Decenal				5.191
tr-2, tr-4-Nonadienal				5.194
trans-2-Tridecenal				5.195
tr-2, tr-4-Undecadienal				5.196
3-Butenal, 2-methyl-4-(2,6,6-trimethyl-2-cyclohexen-1-yl)-				5.198

أسم النكهة	أسماء أخرى	قيود الاستخدام	JECFA No.	FL No.
6-Methyloctanal				5.211
(Z)-5-Decenal				5.217
16-Octadecenal				5.218
3-Methylhexanal				5.219
2-Phenyl-4-methyl-2-hexenal				5.222
6-Methylheptanal				5.225
E-4-Undecenal				5.226
(Diethoxymethyl)benzene				6.017
1,1-Diethoxydecane				6.02
1,1-Diethoxyheptane				6.021
1,1-Diethoxyhexane				6.023
1,1-Dibutoxyethane				6.033
1,1-Dipropoxyethane				6.034
Citral propylene glycol acetal				6.035
1-Isobutoxy-1-ethoxy-2-methylpropane				6.041
1-Isobutoxy-1-ethoxy-3-methylbutane				6.042
1-Isoamyloxy-1-ethoxypropane				6.043
1-Isobutoxy-1-ethoxypropane				6.044
1-Isobutoxy-1-isopentyloxy-2-methylpropane				6.045

أسم النكهة	أسماء أخرى	قيود الاستخدام	JECFA No.	FL No.
1-Isobutoxy-1-isopentyloxy-3-methylbutane				6.046
1-Isopentyloxy-1-propoxyethane				6.047
1-Isopentyloxy-1-propoxypropane				6.048
1-Butoxy-1-(2-methylbutoxy)ethane				6.049
1-Butoxy-1-ethoxyethane				6.05
1,1-Di-(2-methylbutoxy)ethane				6.051
1,1-Di-isobutoxy-2-methylpropane				6.052
1,1-Di-isobutoxyethane				6.053
1,1-Di-isobutoxypentane				6.054
1,1-Diethoxy-2-methylbutane				6.057
1,1-Diethoxy-2-methylpropane				6.058
1,1-Diethoxybutane				6.061
1,1-Diethoxydodecane				6.062
(Z)-1,1-diethoxyhex-3-ene				6.063
Diethoxymethane				6.064
1,1-Diethoxynonane				6.065
1,1-Diethoxyoctane				6.066
1,1-Diethoxypentane				6.067

أسم النكهة	أسماء أخرى	قيود الاستخدام	JECFA No.	FL No.
1,1-Diethoxypropane				6.069
1,1-Diethoxyundecane				6.07
1,1-Dihexyloxyethane				6.071
1,1-Dimethoxyhexane				6.073
Dimethoxymethane				6.074
1,1-Dimethoxypentane				6.075
1,1-Dimethoxypropane				6.076
1,1-Diphenethoxyethane				6.078
1-Ethoxy-1-(2-methylbutoxy)ethane				6.079
1-Ethoxy-1-(2-phenylethoxy)ethane				6.08
1-Ethoxy-1-hexyloxyethane				6.082
1-Ethoxy-1-isopentyloxyethane				6.083
1-Ethoxy-1-methoxyethane				6.084
1-Ethoxy-1-pentyloxyethane				6.085
1-Ethoxy-1-propoxyethane				6.086
2-Ethyl-4-methyl-1,3-dioxolane				6.088
4-Hydroxymethyl-2-methyl-1,3-dioxolane				6.09
1-Isobutoxy-1-ethoxyethane				6.091
1-Isobutoxy-1-isopentyloxyethane				6.092
4-Methyl-2-propyl-1,3-				6.095

أسم النكهة	أسماء أخرى	قيود الاستخدام	JECFA No.	FL No.
dioxolane				
Triethoxymethane				6.096
1,1,3-Triethoxypropane				6.097
1,1-Dipentyloxyethane				6.1
2-Hexyl-5-hydroxy-1,3-dioxane				6.102
3-Methyl-1,1-di-isopentyloxybutane				6.105
2-Methyl-1,1-di-isopentyloxypropane				6.106
1-(2-Methylbutoxy)-1-isopentyloxyethane				6.107
8,8-Diethoxy-2,6-dimethyloct-2-ene				6.109
1-Ethoxy-1-methoxypropane				6.111
1-Hexyloxy-1-isopentyloxyethane				6.114
1-isopentyloxy-1-pentyloxyethane				6.115
1-Butoxy-1-isopentyloxyethane				6.123
1,1-Di-isobutoxy-3-methylbutane				6.124
1,1-Di-isobutoxypropane				6.125
1-Ethoxy-1-pentyloxybutane				6.128
1-Ethoxy-2-methyl-1-				6.129

أسم النكهة	أسماء أخرى	قيود الاستخدام	JECFA No.	FL No.
isopentyloxypropane				
1-Ethoxy-2-methyl-1-propoxypropane				6.13
1-Ethoxy-1-(3-methylbutoxy)-3-methylbutane				6.131
Acetaldehyde ethyl isopropyl acetal				6.137
Piperonyl acetone				7.031
beta-Isomethyl ionone			2186	7.041
p-Menthan-3-one				7.059
Octane-4,5-dione				7.071
6-Methylheptan-3-one				7.072
Pentan-3-one				7.084
Acetovanillone				7.142
Decan-2-one				7.15
3,3-Diethoxybutan-2-one				7.152
1-(3,5-Dimethoxy-4-hydroxyphenyl)propan-1-one				7.154
2,6-Dimethyloct-6-en-3-one (mixture of E and Z)				7.156
6,10-Dimethylundecan-2-one				7.157
Dodecan-2-one				7.158
Heptadecan-2-one				7.16



أسم النكهة	أسماء أخرى	قيود الاستخدام	JECFA No.	FL No.
Hex-1-en-3-one				7.161
Hex-5-en-2-one				7.162
4-Hydroxy-3,5-dimethoxyacetophenone				7.164
4-Hydroxy-4-methylpentan-2-one				7.165
4-Hydroxyhexan-3-one				7.167
2-Hydroxypiperitone				7.168
1-Hydroxypropan-2-one				7.169
3-Methylbutan-2-one				7.178
6-Methylheptan-2-one				7.181
5-Methylheptan-3-one				7.182
3-Methylpentan-2-one				7.185
Non-2-en-4-one				7.187
Nonan-4-one				7.189
1-Phenylbutan-1-one				7.193
4-Phenylbutan-2-one				7.194
1-Phenylpropan-2-one				7.195
Pseudo-ionone			2187	7.198
Tetradecan-2-one				7.199
4-(2,5,6,6-Tetramethyl-1-cyclohexenyl)but-3-en-2-one				7.2
Tridec-12-en-2-one				7.201
2,6,6-Trimethylcyclohex-2-en-1-one				7.202
3,3,5-Trimethylcyclohexan-				7.203

أسم النكهة	أسماء أخرى	قيود الاستخدام	JECFA No.	FL No.
1-one				
3,3,6-Trimethylhepta-1,5-dien-4-one				7.204
6,10,14-Trimethylpentadecan-2-one				7.205
4-(2,3,6-Trimethylphenyl)but-3-en-2-one				7.206
1-Nonene-3-one				7.21
alpha-Methyl naphthyl ketone				7.214
trans-3-Methyl-2-(2-pentenyl)-2-cyclopenten-1-one				7.219
tr-1-(2,6,6-Trimethyl-1-cyclohexen-1-yl)but-2-en-1-one				7.224
cis-1-(2,6,6-Trimethyl-2-cyclohexen-1-yl)but-2-en-1-one				7.225
trans-1-(2,6,6-Trimethyl-2-cyclohexen-1-yl)but-2-en-1-one				7.226
alpha-Damascenone				7.231
(Z)-5-Octen-2-one				7.236
3-Hydroxy-2-octanone				7.238

أسم النكهة	أسماء أخرى	قيود الاستخدام	JECFA No.	FL No.
4-Hydroxyacetophenone				7.243
Octan-2,3-dione				7.248
2-Methoxy-acetophenone				7.254
6-Methyl-3-hepten-2-one				7.258
3-Hydroxy-5-methyl-2-hexanone				7.26
4-Methyl-3-hepten-5-one				7.261
9-decen-2-one				7.262
Succinic acid				8.024
Malonic acid				8.053
But-2-enoic acid (cis and trans)				8.072
Dec-3-enoic acid				8.074
2-Ethylhexanoic acid				8.078
Gallic acid				8.08
Glutaric acid				8.082
Hept-2-enoic acid				8.083
4-Hydroxy-3,5-dimethoxybenzoic acid				8.087
4-Hydroxy-3,5-dimethoxycinnamic acid (mixture of isomers)				8.088
4-Hydroxy-3-methoxycinnamic acid (mixture of isomers)				8.089
2-Hydroxy-4-methylvaleric				8.09

أسم النكهة	أسماء أخرى	قيود الاستخدام	JECFA No.	FL No.
acid				
4-Methyldecanoic acid				8.094
8-Methyldecanoic acid				8.095
3-Methylhexanoic acid				8.096
4-Methylhexanoic acid				8.097
4-Methylpent-3-enoic acid				8.1
Non-2-enoic acid				8.101
Non-3-enoic acid				8.102
Nonanedioic acid				8.103
2-Phenylpropionic acid				8.108
Succinic acid, disodium salt				8.113
4-Methylheptanoic acid				8.115
2-Hexenoic acid				8.119
2-Methyl-2-butenic acid				8.12
2-(4-Methoxyphenoxy)propionic acid				8.127
3-Hydroxybenzoic acid				8.132
3,4-Dihydroxybenzoic acid				8.133
4-Hydroxy-3-methoxy-mandelic acid				8.134
4-(2,2,3-trimethylcyclopentyl)butanoic acid				8.135
Pentyl acetate				9.021
Pentyl propionate				9.135

أسم النكهة	أسماء أخرى	قيود الاستخدام	JECFA No.	FL No.
Pentyl valerate				9.149
Benzyl valerate				9.152
Cedryl acetate				9.171
Methyl hexadecanoate				9.18
Methyl hex-2-enoate				9.181
2-Oxopropyl acetate				9.185
Pentyl decanoate				9.188
Isopentyl valerate				9.198
Phenethyl valerate				9.201
Propyl valerate				9.202
Ethyl octadeca-9,12-dienoate				9.204
Ethyl octadeca-9,12,15-trienoate				9.205
Butyl oleate				9.208
Butyl octanoate				9.209
Allyl crotonate				9.247
Ethyl trans-2-butenate				9.248
Isobutyl valerate				9.25
Methyl decanoate				9.251
2-Isopropyl-5-methylphenyl acetate				9.253
Propyl nonanoate				9.256
D- Glucose pentaacetate				9.258
Propyl deca-2,4-dienoate				9.287
sec-Heptyl isovalerate				9.304
2-Methoxycinnamyl acetate				9.306

أسم النكهة	أسماء أخرى	قيود الاستخدام	JECFA No.	FL No.
(mixture of isomers)				
2-Methylbutyl dodecanoate				9.307
Benzyl 2-methylbutyrate				9.313
Benzyl crotonate				9.314
Benzyl dodecanoate				9.315
Benzyl hexanoate				9.316
Benzyl lactate				9.317
Benzyl octanoate				9.318
Butyl 2-methylbut-2(cis)-enoate				9.321
sec-Butyl acetate				9.323
Butyl but-(2E)-enoate				9.324
sec-Butyl butyrate				9.325
Butyl deca-(2E,4Z)-dienoate				9.326
Butyl decanoate				9.327
sec-Butyl formate				9.328
Butyl hex-2-enoate				9.329
Butyl hex-(3E)-enoate				9.33
Butyl hexadecanoate				9.331
sec-Butyl hexanoate				9.332
sec-Butyl lactate				9.333
Butyl nonanoate				9.334
Butyl oct-2-enoate				9.335
Carvacryl acetate				9.337
Cinnamyl 2-methylcrotonate (mixture of isomers)				9.339

أسم النكهة	أسماء أخرى	قيود الاستخدام	JECFA No.	FL No.
Citronellyl hexanoate				9.341
Cyclogeranyl acetate				9.342
Di-isopentyl succinate				9.345
Dibutyl malate				9.346
Dibutyl succinate				9.347
Diethyl adipate				9.348
Diethyl citrate				9.349
Diethyl fumarate				9.35
Diethyl maleate				9.351
Diethyl nonanedioate				9.352
Diethyl oxalate				9.353
Diethyl pentanedioate				9.354
neo-Dihydrocarvyl acetate				9.355
1,1-Dimethylethyl propionate				9.356
3,7-Dimethyloctyl acetate				9.358
Ethyl 2-acetoxypionate				9.36
Ethyl 2-hydroxy-4-methylbenzoate				9.362
Ethyl 2-methoxybenzoate				9.363
Ethyl 2-phenylpropionate				9.364
Ethyl 3-methylcrotonate				9.365
Ethyl 4-hydroxybenzoate				9.367
Ethyl 4-methylpent-3-enoate				9.368
Ethyl dec-9-enoate				9.37
Ethyl dodec-(2E)-enoate				9.372

أسم النكهة	أسماء أخرى	قيود الاستخدام	JECFA No.	FL No.
Ethyl hept-(2E)-enoate				9.374
Ethyl methacrylate				9.375
Ethyl pent-2-enoate				9.379
Ethyl pentadecanoate				9.38
2-Ethylhexyl acetate				9.381
sec-Hept-4(cis)-enyl acetate				9.386
Heptyl 2-methylbutyrate				9.387
sec-Heptyl acetate				9.388
Heptyl hexanoate				9.39
sec-Heptyl hexanoate				9.391
Heptyl isovalerate				9.392
Hex-2-enyl phenylacetate				9.4
Pentyl isobutyrate				9.418
Citronellyl isovalerate				9.46
Diethyl carbonate				9.481
Pentyl isovalerate				9.499
Ethyl butyryl lactate				9.502
Methyl 3-oxo-2-pentyl-1-cyclopentylacetate				9.52
Dimethyl malonate				9.558
Hex-3(cis)-enyl anisate				9.56
trans-3-Hexenyl formate				9.562
Hex-(3Z)-enyl decanoate				9.567
Hex-(3Z)-enyl octanoate				9.569
(Z)-Hex-3-enyl salicylate				9.57
Hex-(4Z)-enyl acetate				9.572



أسم النكهة	أسماء أخرى	قيود الاستخدام	JECFA No.	FL No.
Hexadec-1-yl acetate				9.574
(3Z)-Hexenyl heptanoate				9.575
Hexyl crotonate				9.578
Hexyl dodecanoate				9.579
Hexyl lactate				9.58
Hexyl salicylate				9.581
Hexyl tetradecanoate				9.582
Hexyl valerate				9.583
Isobutyl 2-methylbutyrate				9.585
Isobutyl 2-methylprop-2-enoate				9.586
Isobutyl decanoate				9.587
Isobutyl dodecanoate				9.588
Isobutyl hexadecanoate				9.589
Isobutyl lactate				9.59
Isobutyl octadecanoate				9.592
Isobutyl octanoate				9.593
Isobutyl tetradecanoate				9.594
(Z)-But-2-enoate				9.596
Isopentyl decanoate				9.598
Isopentyl heptanoate				9.599
Isopentyl hexadecanoate				9.6
Isopentyl lactate				9.601
Isopentyl tetradecanoate				9.602
Isopropyl crotonate				9.603
Isopropyl decanoate				9.604

أسم النكهة	أسماء أخرى	قيود الاستخدام	JECFA No.	FL No.
Isopropyl dodecanoate				9.605
Isopropyl hexadecanoate				9.606
Isopropyl octanoate				9.608
Isopropyl valerate				9.609
4-Isopropylbenzyl acetate				9.611
Lavandulyl acetate				9.612
Linalyl valerate				9.614
p-Menthan-8-yl acetate				9.617
Menthyl formate				9.618
(1R,2S,5R)-Menthyl hexanoate				9.619
Menthyl phenylacetate				9.62
(1R,2S,5R)-Menthyl salicylate				9.621
Methyl 2,4-dihydroxy-3,6-dimethylbenzoate				9.623
Methyl 2-methylcrotonate				9.624
Methyl 2-methylpent-3(E)-enoate				9.625
Methyl 2-oxopropionate				9.626
Methyl 3-acetoxylhexanoate				9.629
Methyl 4-methylbenzoate				9.631
Methyl 5-hydroxydecanoate				9.633
Methyl acetoacetate				9.634
Methyl crotonate				9.636
Methyl dec-2-enoate				9.637

أسم النكهة	أسماء أخرى	قيود الاستخدام	JECFA No.	FL No.
Methyl dec-(4Z)-enoate				9.638
Methyl deca-4,8-dienoate				9.64
Methyl dodec-(2E)-enoate				9.641
Methyl formate				9.642
Methyl geranate				9.643
(S)-Methyl lactate				9.644
Methyl octadecanoate				9.651
Methyl oleate				9.652
3-Methylbut-3-enyl benzoate				9.656
2-Methylbutyl butyrate				9.659
2-Methylbutyl decanoate				9.66
2-Methylbutyl formate				9.661
2-Methylbutyl hexanoate				9.662
2-Methylbutyl isobutyrate				9.663
2-Methylbutyl octanoate				9.664
2-Methylbutyl propionate				9.665
2-Methylbutyl tetradecanoate				9.666
Myrtanyl acetate				9.67
(3S,6Z)-Nerolidyl acetate				9.671
Non-(3Z)-enyl acetate				9.672
Non-(6Z)-enyl acetate				9.673
sec-Octyl acetate				9.676
Octyl hexanoate				9.677
Pentyl 2-methylbutyrate				9.679
Pentyl 2-methylisocrotonate				9.68

أسم النكهة	أسماء أخرى	قيود الاستخدام	JECFA No.	FL No.
Pentyl dodecanoate				9.681
Pentyl hexadecanoate				9.682
Pentyl lactate				9.683
(E)-2-Phenylethyl 2-butenate				9.684
2-Phenethyl decanoate				9.685
Phenethyl lactate				9.686
2-Phenoxyethyl butyrate				9.687
3-Phenylpropyl butyrate				9.69
Prenyl benzoate				9.693
Prenyl salicylate				9.696
Propyl 2-methylbutyrate				9.698
Propyl crotonate				9.699
Propyl decanoate				9.7
Pentyl cinnamate (mixture of isomers)				9.735
Isobornyl phenylacetate				9.756
Pentyl phenylacetate				9.761
Pentyl salicylate				9.762
Phenethyl benzoate				9.774
Butyl benzoate				9.779
Ethyl vanillate				9.798
Methyl vanillate				9.799
Guaiyl acetate				9.808
p-Mentha-1,8(10)-dien-9-yl acetate				9.809

أسم النكهة	أسماء أخرى	قيود الاستخدام	JECFA No.	FL No.
Propyl dodecanoate				9.813
Propyl hexadecanoate				9.814
Propyl lactate				9.815
Propyl octanoate				9.816
3,5,5-Trimethylhexyl acetate				9.819
Undecyl acetate				9.82
Ethyl 2-acetylbutyrate				9.824
Pentyl benzoate				9.825
Ethyl cyclohexyl acetate				9.829
Ethyl 3,7-dimethyl-2,6-octadienoate				9.831
Ethyl 3-acetohexanoate				9.832
iso-Propyl 4-oxopentanoate				9.833
Benzyl decanoate				9.835
3-Phenylpropyl benzoate				9.836
3-Phenylpropyl 3-phenylpropionate				9.837
(3Z)-Hexenyl methyl carbonate				9.838
Decyl 3-methylbutyrate				9.839
Menthol 1-and 2-propylene glycol carbonate				9.843
2-Methylbutyl 2-hydroxybenzoate				9.852
cis-3-Hexenyl 2-methylbutanoate				9.854

أسم النكهة	أسماء أخرى	قيود الاستخدام	JECFA No.	FL No.
(3E)-Hexenyl hexanoate				9.855
Phenylmethyl 2-methyl-2-butenate				9.858
Ethyl 3-acetoxy octanoate				9.862
Hexyl (9Z)-octadecenoate				9.865
Allyl valerate				9.866
Carvyl-3-methylbutyrate				9.87
Citronellyl decanoate				9.871
Citronellyl dodecanoate				9.872
Di(2-methylbutyl) malate				9.874
Hept-4-enyl-2 butyrate				9.88
Hex-3-enyl-2-ethylbutyrate				9.884
Hex-3-enyl hexadecanoate				9.885
2-Isopropyl-5-methylphenyl formate				9.893
2-Methoxy-4-(prop-1-enyl)phenyl 3-methylbutyrate				9.894
4-Methoxybenzyl-2-methylpropionate				9.895
3-Methylbut-3-en-1-yl butyrate				9.897
3-Methylbut-3-en-1-yl hexanoate				9.898
Myrtenyl-2-methylbutyrate				9.899
Myrtenyl-3-methylbutyrate				9.9

أسم النكهة	أسماء أخرى	قيود الاستخدام	JECFA No.	FL No.
Ethyl 3-hydroxyoctanoate				9.916
Octan-3-yl formate				9.926
(3E)-Hexenyl acetate				9.928
L-Monomenthyl glutarate				9.929
Dimenthyl glutarate				9.935
2-Methylbutyl-3-methyl-2-butenate				9.942
Guaiacol propionate				9.943
Guaiacol butyrate				9.944
Guaiacol isobutyrate				9.945
Dihydrogalangal acetate				9.946
(2E)-2-nonenyl acetate				9.948
L-Menthyl (S)-3-hydroxybutyrate				9.949
Z-5-Octenyl acetate				9.95
Dec-7-eno-1,4-lactone				10.038
cis-Dec-7-eno-1,4-lactone				10.039
Dec-8-eno-1,5-lactone				10.04
3,4-Dimethyl-5-pentylidenefuran-2(5H)-one				10.042
2,7-Dimethylocta-5(trans),7-dieno-1,4-lactone				10.043
Heptano-1,5-lactone				10.045
Hex-2-eno-1,4-lactone				10.046
Hexadecano-1,16-lactone				10.047
Hexadecano-1,4-lactone				10.048

أسم النكهة	أسماء أخرى	قيود الاستخدام	JECFA No.	FL No.
Hexadecano-1,5-lactone				10.049
3-Methylnonano-1,4-lactone				10.052
Non-2-eno-1,4-lactone				10.054
Pentano-1,5-lactone				10.055
Phthalide				10.056
3a,4,5,7a-Tetrahydro-3,6-dimethylbenzofuran-2(3H)-one				10.057
Tridecano-1,5-lactone				10.058
Hexadec-7-en-1,16-lactone				10.059
2-Decen-1,4-lactone				10.06
Furan-2(5H)-one				10.066
Pentadecano-1,14-lactone				10.068
5,6-Dimethyl-tetrahydro-pyran-2-one				10.168
2-Aminoacetophenone				11.008
Dipropyl sulfide				12.015
Di-isopropyl sulfide				12.016
Allyl methyl sulfide				12.096
Allyl prop-1-enyl disulfide				12.098
Allyl propyl sulfide				12.099
Butane-1,4-dithiol				12.103
Butane-2-thiol				12.104
S-2-Butyl 3-methylbutanethioate				12.106
Dibutyl disulfide				12.111



أسم النكهة	أسماء أخرى	قيود الاستخدام	JECFA No.	FL No.
Dipentyl sulfide				12.117
Ethyl butyl sulfide				12.124
Ethyl propanethioate				12.125
Ethyl propyl sulfide				12.127
3-(Ethylthio)propan-1-ol				12.129
3-Mercapto-2-methylpropionic acid				12.135
3-Mercapto-2-oxopropionic acid				12.136
Methyl butyl disulfide				12.151
Methyl butyl sulfide				12.152
Methyl 3-methyl-2-butenylsulphide				12.158
Methyl methanethiosulfonate				12.159
Methyl prop-1-enyl sulfide				12.163
Methyl propyl sulfide				12.166
8-(Methylthio)-p-menthan-3-one				12.177
3-(Methylthio)butyric acid				12.178
1-(Methylthio)ethane-1-thiol				12.18
1-(Methylthio)pentan-3-one				12.181
2-(Methylthio)propionic acid				12.182
3-(Methylthio)propionic acid				12.183
S-(Methylthiomethyl) 2-methylpropanethioate				12.189
S-Prenyl thioisobutyrate				12.196

أسم النكهة	أسماء أخرى	قيود الاستخدام	JECFA No.	FL No.
1,1-bis(Ethylthio)-ethane				12.2
Mercaptoacetaldehyde				12.205
S-Prenyl thioisopentanoate				12.221
3-Mercaptohexanal				12.25
Methyl-2-mercaptopropionate				12.266
3-(Methylthio)propyl butyrate				12.277
3-Acetyl-mercaptohexyl acetate				12.278
(S)-Methyl octanethioate				12.282
Di-(1-propenyl)-sulfid (mixture)				12.298
3-(Methylthio)propyl hexanoate				12.299
1,1-Propanedithiol				12.3
Methyl-2-oxo-propyl disulfide				12.301
2-Butanol, 4-mercapto-3-methyl				12.302
3-Pentanethiol				12.303
Ethyl-2-mercapto-2-methyl propanoate				12.304
2-Mercapto-4-heptanol				12.305
3-(Methylthio)-decanal				12.306
(E)-Ethyl furfuracrylate				13.011

أسم النكهة	أسماء أخرى	قيود الاستخدام	JECFA No.	FL No.
Butyl 2-furoate				13.102
4,5-Dihydro-3-mercapto-2-methylfuran				13.108
2,5-Dimethyl-3-(methyldithio)furan				13.113
2,5-Dimethyl-3-(methylthio)furan				13.114
2,5-Dimethyl-4-ethoxyfuran-3(2H)-one				13.117
2,5-Dimethylfuran-3(2H)-one				13.119
2,5-Dimethyltetrahydrofuran				13.12
Ethyl 2-furoate				13.122
Ethyl furfuryl sulfide				13.124
2-Ethyl-5-methylfuran				13.125
Furfuryl 2-methylbutyrate				13.127
Furfuryl but-2(E)-enoate				13.129
Furfuryl hexanoate				13.132
Furfuryl isobutyrate				13.133
1-(2-Furfurylthio)propanone				13.135
2-Furoic acid				13.136
5-Hydroxymethylfurfuraldehyde				13.139
Methyl (2-furfurylthio)acetate				13.141

أسم النكهة	أسماء أخرى	قيود الاستخدام	JECFA No.	FL No.
Methyl 3-(furfurylthio)propionate				13.143
Methyl 5-methylfurfuryl disulfide				13.144
Methyl 5-methylfurfuryl sulfide				13.145
Methyl furfuryl trisulfide				13.146
5-Methyl-2-furanmethanethiol				13.149
2-Octylfuran				13.162
(tetrahydrofuryl)methyl phenylacetate				13.167
2S-cis-Tetrahydro-4-methyl-2-(2-methyl-1-propenyl)-2H-pyran				13.17
4-Acetyl-2,5-dimethylfuran-3(2H)-one				13.175
3-[(2-Furfuryl)dithio]-2-butanone				13.185
Linalool oxide(5) acetate				13.189
3,6-Dimethyl-2,3,3a,4,5,7a-hexahydrobenzofuran				13.198
3-[(2-Methyl-3-furyl)thio]-butanal				13.199
5-isopropyl-2,6-diethyl-2-methyltetrahydro-2H-pyran				13.2

أسم النكهة	أسماء أخرى	قيود الاستخدام	JECFA No.	FL No.
Quinine hydrochloride		In categories 15– not more than 100 mg/kg		14.011
2-Isopropyl-3-methoxypyrazine				14.057
2-Acetyl-1,4,5,6-tetrahydropyridine				14.079
5-Acetyl-2,3-dimethylpyrazine				14.081
2-Acetyl-5-ethylpyrazine				14.083
2-Acetyl-5-methylpyrazine				14.084
2-Acetyl-5-methylpyrrole				14.085
2-Acetyl-6-ethylpyrazine				14.086
2-Acetyl-6-methylpyrazine				14.087
1-Acetylintole				14.088
4-Acetylpyridine				14.089
2-Butyl-3-methylpyrazine				14.091
2-Butylpyridine				14.092
3-Butylpyridine				14.093
2,5-Diethylpyrazine				14.097
6,7-Dihydro-5,7-dimethyl-5H-cyclopentapyrazine				14.099
2,5-Dimethyl-3-isopropylpyrazine				14.101
2,5-Dimethyl-6,7-dihydro-5H-cyclopentapyrazine				14.102
2,3-Dimethylpyridine				14.103

أسم النكهة	أسماء أخرى	قيود الاستخدام	JECFA No.	FL No.
2,4-Dimethylpyridine				14.104
3,4-Dimethylpyridine				14.105
3,5-Dimethylpyridine				14.106
2,3-Dimethylquinoxaline				14.108
2-Ethoxy-3-methylpyrazine				14.109
Ethyl nicotinate				14.11
3-Ethyl-2,5-dimethylpyrazine				14.111
2-Ethyl-3-methoxypyrazine				14.112
5-Ethyl-6,7-dihydro-5H-cyclopentapyrazine				14.113
2-Ethylpyridine				14.115
4-Ethylpyridine				14.116
2-Hexylpyridine				14.117
2-Hydroxypyridine				14.118
Isopropyl nicotinate				14.12
2-Isopropyl-3-methylthiopyrazine				14.122
2-Isopropylpyridine				14.124
4-Isopropylpyridine				14.125
2-Methoxy-3-methylpyrazine				14.126
2-Methoxy-3-propylpyrazine				14.127
2-Methyl-3-methylthiopyrazine				14.128
2-Methyl-3-propylpyrazine				14.129

أسم النكهة	أسماء أخرى	قيود الاستخدام	JECFA No.	FL No.
2-Methylindole				14.131
2-Methylpyridine				14.134
3-Methylpyridine				14.135
4-Methylpyridine				14.136
1-Methylpyrrolidine				14.137
3-Pentylpyridine				14.14
3-Propylpyridine				14.143
Pyrrole-2-carbaldehyde				14.145
5,6,7,8-Tetrahydro-5-methylquinoxaline				14.148
2,4,6-Trimethylpyridine				14.15
Quinine sulphate		In categories 15– not more than 100 mg/kg		14.152
Quinine monohydrochloride dihydrate		In categories 15– not more than 100 mg/kg		14.155
6,7-Dihydro-2,5-dimethyl-5H-cyclopentapyrazine				14.161
1-Methylpyrrole-2-carboxaldehyde				14.163
1-Ethyl-2-pyrrolicarboxaldehyde				14.169
5-Ethyl-2,3-dimethyl pyrazine				14.17
2-Acetyl-4-methylthiazole				15.038
2-Acetyl-5-methylthiazole				15.039
2-Acetylthiophene				15.04

أسم النكهة	أسماء أخرى	قيود الاستخدام	JECFA No.	FL No.
2-Butylthiazole				15.044
2-Butylthiophene				15.045
3,5-Di-isobutyl-1,2,4-trithiolane				15.047
3,5-Di-isopropyl-1,2,4-trithiolane				15.048
2,5-Diethyl-4-methylthiazole				15.05
2,5-Diethyl-4-propylthiazole				15.051
2,5-Diethylthiazole				15.052
Dihydro-2,4,6-triethyl-1,3,5(4H)-dithiazine				15.054
3,6-Dimethyl-1,2,4,5-tetrathiane				15.056
4,6-Dimethyl-2-(1-methylethyl)dihydro-1,3,5-dithiazine				15.057
4,5-Dimethyl-2-ethylthiazole				15.058
2,4-Dimethyl-3-thiazoline				15.06
2,5-Dimethyl-4-ethylthiazole				15.061
2,4-Dimethylthiazole				15.062
2,5-Dimethylthiophene				15.064
4-Ethyl-2-methylthiazole				15.067
5-Ethyl-2-methylthiazole				15.068
4-Ethyl-5-methylthiazole				15.069
2-Ethylthiazole				15.071
2-Ethylthiophene				15.072



أسم النكهة	أسماء أخرى	قيود الاستخدام	JECFA No.	FL No.
5-Ethylthiophene-2-carbaldehyde				15.074
2-Isobutyl-4,5-dimethylthiazole				15.078
2-Isobutyldihydro-4,6-dimethyl-1,3,5-dithiazine				15.079
2-Isopropyl-4,5-dimethylthiazole				15.08
Lenthionine				15.081
3-Mercaptothiophene				15.082
3-Methyl-1,2,4-trithiolane				15.083
5-Methyl-2-pentylthiazole				15.084
4-Methyl-2-propionylthiazole				15.085
2-Methyl-2-thiazoline				15.086
2-Methyl-3-mercaptothiophene				15.087
2-Methylthiazole				15.089
2-Methylthiophene				15.091
3-Methylthiophene				15.092
2-Octylthiophene				15.093
2-Pentylthiophene				15.096
2-Propionylthiophene				15.097
2-Propylthiazole				15.098
1,2,4,5-Tetrathiane				15.103
2-Thiophenemethanethiol				15.108

أسم النكهة	أسماء أخرى	قيود الاستخدام	JECFA No.	FL No.
2,4,6-Trimethyl-1,3,5-trithiane				15.11
1,2,4-Trithiolane				15.111
2-Isobutyl-4-methyl thiazole				15.115
2-Acetyl-4-ethylthiazole				15.116
4-Butylthiazole				15.118
2-Isobutyl-3-thiazoline				15.119
Ethyl thialdine				15.135
Diammonium sulphide				16.002
Ammonia				16.009
Glycyrrhizic acid		In categories 1 and 3 – not more than 375 mg/kg In category 5 – not more than 1 500 mg/kg In category 6 – not more than 5000 mg/kg In category 8 – not more than 200 mg/kg In category 9 – not more than 25 mg/kg In category 10 – not more than 20 mg/kg In category 15 – not more than 50 mg/kg		16.012
Caffeine		Restrictions for use as a flavouring substance: In category 1 – not more than 70 mg/kg In category 3 – not more		16.016

أسم النكهة	أسماء أخرى	قيود الاستخدام	JECFA No.	FL No.
		than 70 mg/kg In category 5 – not more than 100 mg/kg In category 15 – not more than 150 mg/kg		
Theobromine		Restrictions for use as a flavouring substance: In category 1 – not more than 70 mg/kg In category 15 – not more than 100 mg/kg		16.032
Ammonium chloride		In categories 1, 9, 10, and 16 – not more than 3 g/kg In category 5 – quantum satis In category 13 – not more than 3g/kg except for salt substitutes 40g/kg		16.048
Naringin				16.058
Ammonium hydrogen sulphide				16.059
Glycyrrhizic acid, ammoniated		In category 1 – not more than 40 mg/kg In category 3 – not more than 90 mg/kg In category 5 – not more than 1 500 mg/kg In category 6 - not more than 5000 mg/kg In category 7 – not more		16.060

أسم النكهة	أسماء أخرى	قيود الاستخدام	JECFA No.	FL No.
		<p>than 45 mg/kg In categories 8 and 14 – not more than 60 mg/kg</p> <p>In category 10 – not more than 300 mg/kg In category 12 – not more than 100 mg/kg</p> <p>In category 13 – not more than 50 mg/kg In categories 15– not more than 200 mg/kg In category 16 – not more than 150 mg/kg</p>		
Neohesperidin dihydrochalcone		<p>Restrictions for use as a flavouring substance:</p> <p>In categories 1, 3, 4, 7, 9, 10, 11, 13 and 15 - not more than 3 mg/kg In categories 2, 5 and 8 - not more than 4 mg/kg</p> <p>In category 16 – not more than 5 mg/kg</p>		16.061
trans-2-Methyl-4-propyl-1,3-oxathiane				16.062
Sodium diacetate				16.073
Tannic acid				16.08
Sucrose octaacetate				16.081
5,7-dihydroxy-2-(4-hydroxy-				16.083

أسم النكهة	أسماء أخرى	قيود الاستخدام	JECFA No.	FL No.
3-methoxyphenyl)-2,3-dihydro-4H-chromen-4-one sodium salt				
Ferric ammonium citrate				16.089
Ferrous lactate				16.096
Hesperetin				16.097
2-Hydroxy-N-[2-(4-hydroxyphenyl)ethyl]-propionamide				16.107
3-(4-Hydroxyphenyl)-1-(2,4,6-trihydroxyphenyl)propan-1-one				16.109
Naringin dihydrochalcone			2208	16.110
Trilobatin				16.112
Rebaudioside A		In categories 1, 3, 4, 5, 7, 13, 15– not more than 10 mg/kg		16.113
2-Pentyl-4-propyl-1,3-oxathiane				16.114
4-Amino-5,6-dimethylthieno[2,3-d]pyrimidin-2(1H)-one				16.116
N-(2-Methylcyclohexyl)-2,3,4,5,6-pentafluorobenzamide				16.119
4-Amino-5,6-				16.12

أسم النكهة	أسماء أخرى	قيود الاستخدام	JECFA No.	FL No.
dimethylthieno[2,3-d]pyrimidin-2(1H)-one hydrochloride				
Spilanthol				16.121
4-Methyl, 2-propyl, 1-3-oxathiane				16.122
(1R,2S,5R)-N-(4-Methoxyphenyl)-5-methyl-2-(1-methylethyl)cyclohexanecarboxamide				16.123
(1R,2S,5R)-N-cyclopropyl-5-methyl-2-isopropylcyclohexanecarboxamide				16.124
(2S,5R)-N-[4-(2-amino-2-oxoethyl)phenyl]-5-methyl-2-(propan-2-yl)cyclohexanecarboxamide				16.125
3-[(4-amino-2,2-dioxido-1H-2,1,3-benzothiadiazin-5-yl)oxy]-2,2-dimethyl-N-propylpropanamide				16.126
L-Alanine				17.002
L-Cystine				17.006

أسم النكهة	أسماء أخرى	قيود الاستخدام	JECFA No.	FL No.
D,L-Lysine				17.013
D,L-Serine				17.02
D,L-Threonine				17.021
L-Methionine				17.027
L-Valine				17.028
L-(+)-Lysine monohydrochloride				17.031
L-Cysteine hydrochloride				17.032
L-Methionylglycine				17.037
Cassyrane			2189	
1-Cyclopropane- $\gamma$ -methyl-4- methoxybenzene			2190	
2,4-Nonadiene			2192	
4-Methyl-cis-2-pentene			2194	
1-Nonene			2195	
1,3,5,7-Undecatetraene			2196	
Mixture of methyl cyclohexadiene and methylene cyclohexene			2197	

أسم النكهة	أسماء أخرى	قيود الاستخدام	JECFA No.	FL No.
2,2,6,7-Tetramethyl-bicyclo[4.3.0]nona-4,9(1)-dien- 8-ol			2198	
dl-Camphor			2199	
l-Fenchone			2200	
2,2,6,7-Tetramethyl-bicyclo[4.3.0]nona-4,9(1)-dien- 8-one			2201	
Ethyl 3-(2-hydroxyphenyl) propanoate			2202	
3-[3-(2-Isopropyl-5-methylcyclohexyl)-ureido]-butyric acid ethyl ester			2203	
4-Amino-5-(3-(isopropylamino)-2,2-dimethyl-3- oxopropoxy)-2-methylquinoline-3-carboxylic acid			2204	
4-Amino-5-(3-(isopropylamino)-2,2-dimethyl-3- oxopropoxy)-2-methylquinoline-3-carboxylic acid hemisulfate monohydrate salt			2204.1	
Triethylthialdine			2205	



أسم النكهة	أسماء أخرى	قيود الاستخدام	JECFA No.	FL No.
2-Isopropyl-4-methyl-3-thiazoline			2206	
Myricitrin			2207	
1-(2,4-Dihydroxyphenyl)-3-(3-hydroxy-4-methoxyphenyl) propan-1-one			2209	
(-)-Matairesinol			2210	

الجدول رقم (4)  
قائمة بالنباتات غير المسموح باستخدامها كمصدر للنكهات الطبيعية

الاسم العربي	الاسم الانجليزي	الاسم اللاتيني	الجزء الممنوع
كبديّة	Liver wort	<i>Anemone hepatica</i>	العشبة
بالادونا سامة	Deadly night shade	<i>Atropa belladonna</i>	النبات بالكامل
فاشرا بيضاء	White bryony	<i>Bryonia alba</i>	الجزر
شاي المكسيك	Mexican goose foot	<i>Chenopodium ambrosioides</i>	العشبة
زنبق الوادي	Lily of the valley	<i>Convallaria mayalis</i>	النبات بالكامل
مازريون	Mezereum	<i>Daphne mezereum</i>	النبات بالكامل
سرخس ذكر	Male fern	<i>Dryopteris filix-mass</i>	الريزوم
رقيب الشمسي	Heliotrope	<i>Heliotropium europaeum</i>	الأوراق
جاميكاروجسوت	Jamaica dogwood	<i>Piscida erythrina</i>	الجزور
بسفايج	Polypody	<i>Polypodium vulgare</i>	الجزور
رمان	Pomegranate tree	<i>Punica granatum</i>	الجزور
عنصل	Squill	<i>Urginea scilla</i>	البصلة

## 5 الاختبار

أخذ العينات

تؤخذ العينات بالطريقة الموضحة في مواصفة المنتج الغذائي .

## 6 طرق الاختبار

1.6 تجرى الاختبارات طبقاً للمواصفة القياسية الخليجية والخاصة بـ " طرق اختبار المنكهات المسموح باستخدامها في المنتجات الغذائية " التي تعتمد عليها الهيئة .

2.6 تجرى على العينة الممثلة المأخوذة طبقاً للبند ٥ الاختبارات اللازمة لتحديد مدى مطابقتها

لهذه المواصفة .

## 7 التعبئة والنقل والتخزين

يجب عند التعبئة والنقل والتخزين مراعاة ما يلي :

### 1.7 التعبئة

أن تعبأ في عبوات صحية مناسبة ذات أغطية محكمة بحيث تمنع اتصالها بالجو الخارجي أو تلوثها .

### 2.7 النقل

أن تنقل العبوات بطريقة لا تؤدي إلى تهشمها أو تلفها وأن تخزن في أماكن مبردة جافة وبعيدة عن مصادر الضوء المباشر والتلوث .

3.7 يجب أن تخزن العبوات في مكان جاف وبارد، بعيداً عن مصدر ضوئي مباشر أو تلوث.

## 8 البيانات الإيضاحية

مع عدم الإخلال بما نصت عليه GSO 9 " بطاقات المواد الغذائية المعبأة " يجب أن يكتب على بطاقات المواد الغذائية المحتوية على المنكهات البيانات التالية باللغة العربية:

1.8 إسم النكهة ( أو الاسم الأكثر تخصصاً لخاصية النكهة).

2.8 نوع المادة المنكهة وذلك طبقاً للتعريف الواردة في بند (3).

3.8 في حالة عبوات النكهات الغير معدة للبيع للمستهلك بشكل مباشر تستخدم عبارة "للاستخدام الغذائي" وذكر أسم المنتج المراد استخدام هذه النكهات فيه.

4.8 الرقم الكودي (إن وجد) .

## المصطلحات الفنية

Flavor .....	منكهة
Natural flavors substances .....	مواد منكهة طبيعية
Natural flavors complexes .....	معقدات نكهة طبيعية
Smoke flavor.....	نكهة دخان
Flavor enhancer.....	محسن نكهة
synthetic flavors.....	منكهات صناعية
Non- flavor food ingredients.....	مكونات غذائية غير منكهة
Cis.....	متشابه

المراجع:

- 1- **CAC/MISC 6-2016 (LIST OF CODEX SPECIFICATIONS FOR FOOD ADDITIVES).**
- 2- **(EU) No 872/2012 (COMMISSION IMPLEMENTING REGULATION).**
- 3- **Council Directive 88/388/EEC (THE APPROXIMATION OF THE LAWS OF THE MEMBER STATES RELATING TO FLAVOURINGS FOR USE IN FOODSTUFFS AND TO SOURCE MATERIALS FOR THEIR PRODUCTION).**