

تغير على جيلخا لودل ن و اعتراف س لجم لودل س بيقتلا تيدھ
GCC STANDARDIZASYON KURULUŞU (GSO)



GSO 707/ 1997

اهما دختساب ح و مسما تاهكنما
تئيا ذغلا تاجنتملا ي ف

GIDA MADDELERİNDE
KULLANIMINA İZİN VERİLEN
TATLANDIRICILAR

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GSO Yönetim Kurulu Onay Tarihi : 1415(H)-06-13 (1994-11-16)
Yayın türü : Teknik yönetmelik

GIDA MADDELERİNDE KULLANIMINA İZİN VERİLEN TATLANDIRICILAR

1- KAPSAM VE UYGULAMA ALANI

İşbu standart insan tüketimine yönelik gıda maddelerinde kullanılmasına izin verilen doğal tatlandırıcılar, yapay tatlandırıcılar ve lezzet artıcılar ile ilgilidir.

2- TAMAMLAYICI REFERANSLAR

2.1 GSO 9/1995 "Önceden paketlenmiş Gıdalarda Etiketleme ".

3- TANIMLAR

3.1 Doğal tatlandırıcılar

Ham olarak doğal (ham) maddelerden (sebzeler, hayvanlar) veya fiziksel, mikrobiyolojik veya enzimatik işlemler neticesinde elde edilmiş maddeler.

3.2 Yapay tatlandırıcılar

Doğal maddelerde var olan maddeler ile özdeş olan ve kimyasal değil sentetik olarak elde edilen maddeler.

3.3 Lezzet arttırıcı

Çok az kokusu olan veya hiç olmayan, temel olarak belirli gıda komponentlerinin lezzetini arttırmaya yönelik maddeler.

4- GEREKLİLİKLER

Gıda maddelerinde kullanımına izin verilen tatlandırıcılar için aşağıdaki hususların sağlanması gerekmektedir :

4.1 Doğal tatlandırıcıların katılacağı gıda ürünlerinde var olan biyolojik aktif madde maksimum sınırı Tablo 1’de belirtilen değerleri aşamaz.

4.2 Sadece Tablo 2’de belirtilen yapay tatlandırıcı kullanılabilir.

4.3 Sadece Tablo 3’te belirtilen lezzet arttırıcılar kullanılabilir.

4.4 Tablo 4’te belirtilen doğal tatlandırıcılarının elde edildiği bitkiler kullanılamaz.

Tablo (1)

Gıda ürünlerindeki biyolojik aktif maddelerin maksimum sınırları

No.	Biyolojik olarak aktif maddeler	Tüketilmeye hazır son ürünlerde maksimum sınır ppm		
		Gıda	İçecek	İstisna
1.	Agaric acid	20.0	20.0	Mantar içeren gıdalarda, 100 ppm.
2.	Aloin	0.1	0.1	
3.	Beta-Azarone	0.1	0.1	
4.	Berberine	0.1	0.1	
5.	Coumarin	2.0	2.0	
6.	Hydrocyanic acid	1.0	1.0	25 şekerlemelerde 10 karamellerde 50 badem ezmesinde 5 çekirdekli meyve sularında
7.	Hypericine	0.1	0.1	1 pastillerde
8.	Pulegone	25.0	100	250 nane tatlı içeceklerde 350 naneli şekerlemelerde
9.	Quassine	5.0	5.0	10 pastillerde
10.	Quinine	0.1	85	
11.	Safrole	1	1	
12.	Santonin	0.1	0.1	
13.	Thujones	0.5	0.5	

Tablo (2)

Gıda maddelerinde kullanımına izin verilen yapay tatlandırıcılar

No.	Yapay tatlandırıcı	No.	Yapay tatlandırıcı
1	Acetal	36	a-Amylcinnamyl acetate
2	Acetaldehyde phenethyl propyl acetal	37	a-Amylcinnamyl alcohol
3	Acetanisole	38	a-Amylcinnamyl formate
4	Acetophenone	39	a-Amylcinnamyl isovalerate
5	Adipic acid	40	Amyl formate
6	Allyl anthranilate	41	Amyl heptanoate
7	Allyl butyrate	42	Amyl hexanoate
8	Allyl cinnamate	43	Amyl octanoate
9	Allyl cyclohexaneacetate	44	Anisole
10	Allyl cyclohexanebutyrate	45	Anisyl acetate
11	Allyl cyclohexanehexanoate	46	Anisyl alcohol
12	Allyl cyclohexanepropionate	47	Anisyl butyrate
13	Allyl cyclohexanevalerate	48	Anisyl formate
14	Allyl disulfide	49	Anisyl phenylacetate
15	Allyl 2-ethylbutyrate	50	Anisyl butrate
16	Allyl hexanoate	51	Beechwood creosote
17	Allyl a-ionone	52	Benzaldehyde dimethyl acetal
18	Allyl isothiocynate (mustard oil)	53	Benzaldehyde glyceryl acetal
19	Allyl isovalerate	54	Benzaldehyde propylene glycol acetal
20	Allyl mercaptan	55	Benzenethiol
21	Allyl nonanoate	56	Benzoin
22	Allyl octanoate	57	Benzophenone
23	Allyl phenoxyacetate	58	Benzyl acetate
24	Allyl phenylacetate	59	Benzyl acetoacetate
25	Allyl propionate	60	Benzyl alcohol
26	Allyl sorbate	61	Benzyl benzoate
27	Allyl sulfide	62	Benzyl butyl ether
28	Allyl tiglate	63	Benzyl butyrate
29	Allyl 10-undecenoate	64	Benzyl cinnamate
30	Ammonium isovalerate	65	Benzyl 2-3-dimethylcrotonate
31	Ammonium sulfide	66	Benzyl disulfide
32	Amyl alcohol	67	Benzyl ethyl ether
33	Amyl butyrate	68	Benzyl formate
34	a-Amylcinnamaldehyde	69	3-Benzyl-4-heptanone
35	a-Amylcinnamaldehyde dimethyl acetate	70	Benzyl isobutyrate

Tablo (2) (Devam)

No.	Yapay tatlandırıcı	No.	Yapay tatlandırıcı
71	Benzyl isovalerate	107	Butyl phenylacetate
72	Benzyl mercaptan	108	Butyl propionate
73	Benzyl methoxyethyl acetal	109	Butyl stearate
74	Benzyl phenylacetate	110	Butyl sulfide
75	Benzyl propionate	111	Butyl 10-undecenoate
76	Benzyl salicylate	112	Butyl valerate
77	Birch tar oil	113	Butyraldehyde
78	Borneol	114	Cadinene
79	Bornyl acetate	115	Camphene
80	Bornyl formate	116	d-camphor
81	Bornyl isovalerate	117	Carvacrol
82	Bornyl valerate	118	Carvacyl ethyl ether
83	B-Bourbonene	119	Carveol
84	2-Butanol	120	4-Carvomenthenol
85	2-Butanone	121	cis Carvone oxide
86	Butter acids	122	Carvyl acetate
87	Butyric esters	123	Carvyl propionate
88	Butyl acetate	124	B-Caryophyllene
89	Butyl acetoacetate	125	Caryophyllene alcohol
90	Butyl alcohol; 1-butanol	126	Caryophyllene alcohol acetate
91	Butyl anthranilate	127	B-Caryophyllene oxide
92	Butyl butyrate	128	Cedarwood oil alcohols
93	Butyl butyryllacetate	129	Cedarwood oil terpenes
94	a-Butyl cinamaldehyde	130	1,4 Cineole
95	Butyl cinnamate	131	Cinnamaldehyde ethylene glycol acetal
96	Butyl 2-decenoate	132	Cinnamic acid
97	Butyl ethyl malonate	133	Cinnamyl acetate
98	Butyl formate	134	Cinnamyl alcohol
99	Butyl heptanoate	135	Cinnamyl anthranilate
100	Butyl hexanoate	136	Cinnamyl benzoate
101	Butyl p-hydroxybenzoate	137	Cinnamyl butyrate
102	Butyl isobutyrate	138	Cinnamyl cinnamate
103	Butyl isovalerate	139	Cinnamyl formate
104	Butyl lactate	140	Cinnamyl isobutyrate
105	Butyl laurate	141	Cinnamyl isovalerate
106	Butyl leuvinlate		

Tablo (2) (Devam)

No.	Yapay tatlandırıcı	No.	Yapay tatlandırıcı
142	Cinnamyl phenylacetate	177	Decyl propionate
143	Cinnamyl propionate	178	Dibenzyl ether
144	Citral diethyl acetal	179	4.4 Dibutyl- γ -butyrolactone
145	Citral dimethyl acetal	180	Dibutyl sebacate
146	Citral propylene glycol acetal	181	Diethyl malate
147	Citronellal	182	Diethyl malonate
148	Citronellol	183	Diethyl sebacate
149	Citronelloxyacetaldehyde	184	Diethyl succinate
150	Citronellyl acetate	185	Diethyl tartrate
151	Citronellyl butyrate	186	2.5 Diethyltetrahydrofuran
152	Citronellyl formate	187	Dihydrocarveol
153	Citronellyl isobutyrate	188	Dihydrocarvone
154	Citronellyl phenylacetate	189	Dihydrocarvyl acetate
155	Citronellyl propionate	190	m-Dimethoxybenzene
156	Citronellyl valerate	191	p-Dimethoxybenzene
157	p-Cresol	192	2.4-Dimethylacetophenone
158	Cuminaldehyde (cuminal)	193	a.a-Dimethylbenzyl isobutyrate
159	Cyclohexaneacetic acid	194	2.6-Dimethyl-5-heptenal
160	Cyclohexaneethyl acetate	195	2.6- Dimethyl octanal
161	Cyclohexyl acetate	196	3.7- Dimethyl 1-octanol
162	Cyclohexyl anthranilate	197	a.a- Dimethylphenethyl acetate
163	Cyclohexyl butyrate	198	a.a- Dimethylphenethyl alcohol
164	Cyclohexyl cinamate	199	a.a- Dimethylphenethyl butyrate
165	Cyclohexyl formate	200	a.a- Dimethylphenethyl formate
166	Cyclohexyl isovalerate	201	Dimethyl succinate
167	Cyclohexyl propionate	202	1.3-Diphenyl-2-propanone
168	p-Cymene	203	delta-Dodecalactone
169	γ -Decalactone	204	γ -Dodecalactone
170	delta-Decalactone	205	2-Dodecenal
171	Decanal dimethyl acetal	206	Estragole
172	1-Decanol	207	p-Ethoxybenzaldehyde
173	2-Decenal	208	Ethyl acetoacetate
174	3-Decen-2-one (heptylidene Acetone)	209	Ethyl 2-acetyl-3-phenyl-propionate
175	Decyl acetate	210	Ethyl aconitate
176	Decyl butyrate	211	Ethyl acrylate

Tablo (2) (Devam)

No.	Yapay tatlandırıcı	No.	Yapay tatlandırıcı
212	Ethyl p-anisate	248	Ethyl 3-phenylpropionate
213	Ethyl anthranilate	249	Ethyl propionate
214	Ethyl benzoate	250	Ethyl pyruvate
215	Ethyl benzoylacetate	251	Ethyl salicylate
216	α -Ethylbenzyl butyrate	252	Ethyl sorbate
217	Ethyl brassylate	253	Ethyl tiglate
218	2-Ethylbutyl acetate	254	Ethyl undecanoate
219	2-Ethylbutyraldehyde	255	Ethyl 10-undecanoate
220	2-Ethylbutyric acid	256	Ethyl valerate
221	Ethyl cinnamate	257	Eucalpytol
222	Ethyl crotonate	258	Eugenyl acetate
223	Ethyl cyclohexanepropionate	259	Eugenyl benzoate
224	Ethyl decanoate	260	Eugenyl formate
225	Ethyl formate	261	Eugenyl methyl ether
226	2-Ethylfuran	262	Farnesol
227	Ethyl 2-furanpropionate	263	d-Fenchone
228	4-Ethylguaiaicol	264	Fenchyl alcohol
229	Ethyl heptanoate	265	Formic acid
230	2-Ethyl-2-heptenal	266	(2-Furyl) -2-propanone
231	Ethyl hexanoate	267	1-Furyl-2-propanone
232	Ethyl isobutyrate	268	Fusel oil, refined (mixed amyl alcohols)
233	Ethyl isovalerate	269	Geranyl acetoacetate
234	Ethyl lactate	270	Geranyl acetone
235	Ethyl burate	271	Geranyl benzoate
236	Ethyl levulinate	272	Geranyl butyrate
237	Ethyl maltol	273	Geranyl formate
238	Ethyl 2-Methylbutyrate	274	Geranyl hexanoate
239	Ethyl myristate	275	Geranyl isobutyrate
240	Ethyl nitrite	276	Geranyl isovalerate
241	Ethyl nonanoate	277	Geranyl phenylacetate
242	Ethyl 2-nonynoate	278	Geranyl propionate
243	Ethyl octanoate	279	Glucose pentaacetate
244	Ethyl oleate	280	Glyceryl monooleate
245	Ethyl phenylacetate	281	Guaiaicol
246	Ethyl 4-phenylbutyrate	282	Guaiaicyl acetate
247	Ethyl 3-phenylglycidate		

Tablo (2) (Devam)

No.	Yapay tatlandırıcı	No.	Yapay tatlandırıcı
283	Guaiacyl phenylacetate	319	Hexyl alcohol
284	Guaine	320	Hexyl butyrate
285	Guaiol acetate	321	α -Hexylcinnamaldehyde
286	γ -Heptalactone	322	Hexyl formate
287	Heptanal	323	Hexyl hexanoate
288	Heptanal dimethyl acetal	324	2-Hexylidene cyclopentanone
289	Heptanal 1.2 glyceryl acetal	325	Hexyl isovaleratel
290	2.3 Heptanedione	326	Hexyl 2-methylbutyrate
291	3-Heptanol	327	Hexyl octanoate
292	2-Heptanone	328	Hexyl phenylacetate
293	3-Heptanone	329	Hexyl propionate
294	4-Heptanone	330	Hydroxycitronellal (3,7 dimethyl-7 hydroxy octenal
295	cis-4-Heptenal		
296	Heptyl acetate	331	Hydroxycitronellal diethyl acetal
237	Heptyl alcohol		
298	Heptyl butyrate	332	Hydroxycitronellal dimethyl acetal
299	Heptyl cinnamate		
300	Heptyl formate	333	Hydroxycitronellal, (3,7 dimethyl, 1,7 octanol)
301	Heptyl isobutyrate		
302	Heptyl octanoate	334	N-(4-Hydroxy-3-methoxybenzyl) nonanamide
303	1-Hexadecanol; cetyl alcohol		
304	Ω 6-Hexadecenelactone	335	5-Hydroxy-4-octanone
305	γ -Hexalactone	336	p-hydroxybenzyl acetone
306	γ -Lactone	337	Indole
307	Hexanal	338	a-Ionone
308	2.3 Hexanedione	339	B-Ionone
309	Hexanoic acid	340	a-Irone
310	2-Hexenal	341	Isoamyl acetate
311	2-Hexen-ol	342	Isoamyl acetoacetate
312	3-Hexen-ol	343	Isoamyl alcohol
313	2-Hexenyl acetate	344	Isoamyl benzoate
314	3-Hexenyl isovalerate	345	Isoamyl butyrate
315	3-Hexenyl 2-methylbutyrate	346	Isoamyl cinnamate
316	3-Hexenyl phenylacetate	347	Isoamyl formate
317	Hexyl acetate	348	Isoamyl 2-furanbutyrate
318	2-Hexyl-4-acetoxytetrahydrofuran	349	Isoamyl 2-furanpropionate

Tablo (2) (Devam)

No.	Yapay tatlandırıcı	No.	Yapay tatlandırıcı
350	Isoamyl hexanoate	386	Isoeugenol
351	Isoamyl isobutyrate	387	Isoeugenyl acetate
352	Isoamyl isovalerate	388	Isoeugenyl benzyl ether
353	Isoamyl laurate	389	Isoeugenyl ethyl ether
354	Isoamyl-2-methylbutyrate	390	Isoeugenyl formate
355	Isoamyl nonanoate	391	Isoeugenyl methyl ether
356	Isoamyl octanoate	392	Isoeugenyl phenylacetate
357	Isoamyl phenylacetate	393	Isojasmone
358	Isoamyl propionate	394	a-Isomethylionone
359	Isoamyl pyruvate	395	Isopropyl acetate
360	Isoamyl salicylate	396	p-Isopropylacetophenone
361	Isoborneol	397	Isopropyl alcohol
362	Isobornyl acetate	398	Isopropyl benzoate
363	Isobornyl formate	399	Isopropylbenzyl alcohol
364	Isobornyl isovalerate	400	Isopropyl butyrate
365	Isobornyl propionate	401	Isopropyl cinnamate
366	Isobutyl acetate	402	Isopropyl formate
367	Isobutyl actoacetate	403	Isopropyl hexanoate
368	Isobutyl alcohol	404	Isopropyl isobutyrate
369	Isobutyl angelat	405	Isopropyl isovalerate
370	Isobutyl anthranilate	406	p-Isopropyl phenylacetaldehyde
371	Isobutyl benzoate	407	Isopropyl phenylacetate
372	Isobutyl butyrate	408	3-(p-Isopropyl phenyl)-propion;- dehyde
373	Isobutyl cinnamate	409	Isopropyl propionate
374	Isobutyl formate	410	Isopulegol
375	Isobutyl 2-furanpropionate	411	Isopulegone
376	Isobutyl heptanoate	412	Isopulegyl acetate
377	Isobutyl hexanoate	413	Isoquinoline
378	Isobutyl isobutyrate	414	Isovaleric acid
379	a-Isobutylphenethyl alcohol	415	cis-Jasmone
380	Isobutyl phenylacetate	416	Lauric aldehyde
381	Isobutyl propionate	417	Lauryl acetate
382	Isobutyl salicylate	418	Lauryl alcohol
383	2-Isobutylthiazole	419	Lepidine
384	Isobutyraldehyde	420	Levulinic acid
385	Isobutyric acid		

Tablo (2) (Devam)

No.	Yapay tatlandırıcı	No.	Yapay tatlandırıcı
421	Linalool oxide	457	Methyl benzoate
422	Linalyl anthranilate	458	Methylbenzyl acetate
423	Linalyl benzoate	459	a-Methylbenzyl acetate
424	Linalyl butyrate	460	a-Methylbenzyl alcohol
425	Linalyl cinnamate	461	a-Methylbenzyl butyrate
426	Linalyl formate	462	a-Methylbenzyl isobutyrate
427	Linalyl hexanoate	463	a-Methylbenzyl formate
428	Linalyl isobutyrate	464	a-Methylbenzyl propionate
429	Linalyl isovalerate	465	2-Methyl-3-buten-2-ol
430	Linalyl octanoate	466	2-Methylbutyl isovalerate
431	Linalyl propionate	467	Methyl p-tert-butylphenyl-acetate
432	Maltol	468	2-Methylbutyraldehyde
433	Menthadienol	469	3-Methylbutyraldehyde
434	p-Mentha-1.8-dien-7-ol	470	Methyl butyrate
435	Menthadienyl acetate	471	2-Methylbutyric acid
436	p-Menth-3-en-1-ol	472	a-Methylcinnamaldehyde
437	1 p-Methen-9-yl acetate	473	p-Methylcinnamaldehyde
438	Menthol	474	Methyl cinnamate
439	Menthone	475	2-Methyl-1.3-cyclohexadiene
440	Menthyl acetate	476	Methylcyclopentenolone
441	Menthyl isovalerate	477	Methyl disulfide
442	o-Methoxybenzaldehyde	478	Methyl ester of rosin
443	p-Methoxybenzaldehyde	479	Methyl heptanoate
444	o-Methoxy cinnamaldehyde	480	2-Methylheptanoic acid
445	2-Methoxy-4-methylphenol	481	6-Methyl-3.5-heptadien-2-one
446	4-(p-Methoxyphenyl)-2-butanone	482	Methyl-5-hepten-2-ol
447	Methoxystry isopropyl ketone	483	Methyl-5-hepten-2-one
448	α -Methylanisylidene acetone	484	Methyl hexanoate
449	Anisyl-methyl ketone	485	Methyl 2-hexanoate
450	2-Methoxy-4-vinylphenol	486	Methyl p-hydroxybenzoate
451	Methyl acetate	487	Methyl a-ionone
452	4-Methylacetophenone;	488	Methyl B-ionone
453	2-Methoxy-4-vinylphenol;	489	Methyl Δ -ionone
454	Methyl anisate	490	Methyl isobutyrate
455	o-Methylanisole	491	2- Methyl-3-(p-isopropylphenyl
456	p- Methylanisole		propionaldehyde

Tablo (2) (Devam)

No.	Yapay tatlandırıcı	No.	Yapay tatlandırıcı
492	Methyl isovalerate	523	2-Mythyl-3-tolypropionaldehyde
493	Methyl laurate	524	2-Mythylundecanal
494	Methyl mercaptan	525	Methyl 9-undecenoate
495	Methyl 0-methoxybenzoate	526	Methyl 2-undecynoate
496	Methyl N-methylanthranilate	527	Methyl valerate
497	Methyl 2-methylbutyrate	528	2-Mythylvaleric acid
498	Methyl 2-methylthiopropionate	529	Myrcene
499	Methyl 4-methylvalerate	530	Myristaldehyde
500	Methyl myristate	531	d-Neomenthol
501	Methyl naphthyl ketone	532	Nerol
502	Methyl nonanoate	533	Nerolidol
503	Methyl 2-nonenoate	534	Neryl acetate
504	Methyl 2-nonynoate	535	Neryl butyrate
505	2-Methyloctanal	536	Neryl formate
506	Methyl octanoate	537	Neryl isobutyrate
507	Methyl 2-octynoate	538	Neryl isovalerate
508	4-Methyl-2.3-pentanedione	539	Neryl propionate
509	4-Methyl-2-pentanone	540	2.6 Nonadien-1-01
510	B-Methyl phenethyl alcohol	541	γ -Nonalactone
511	Methyl phenylacetate	542	Nonanal
512	3-Methyl-4-phenyl-3-butene-2-one	543	1.3-Nonadediol acetate
513	2-Methyl-4-phenyl-2-butyl acetate	544	Nonanoic acid
514	2-Methyl -4-phenyl-2-butyl isobutyrate	545	2-Nonanone
515	3-Methyl-2-phenylbutyral-dehyde	546	3-Nonanon-1-yl acetate
516	Methyl 4-phenylbutyrate	547	Nonyl acetate
517	4-Methyl-1-phenyl-2-pentanone	548	Nonyl alcohol
518	Methyl 3-phenylpropionate	549	Nonyl octanoate
519	Methyl propionate	550	Nonyl isovalerate
520	3-Methyl-5-propyl-2-cyclohexene-1-one	551	Nootkatone
521	Methyl sulfide	552	Ocimene
522	3-Methylthiopropionaldehyde	553	γ -Octalactone
		554	Octanal
		555	Octanal dimethyl acetal
		556	1-Octanol
		557	2-Octanol
		558	3-Octanol

Tablo (2) (Devam)

No.	Yapay tatlandırıcı	No.	Yapay tatlandırıcı
559	2-Octanone	594	Phenethyl salicylate
560	3-Octanone	595	Phenethyl senecionate
561	3-Octanon-1-ol	596	Phenethyl tiglitate
562	1 Octen-3-ol	597	Phenoxyacetic acid
563	1-Octen-3-yl acetate	598	2-Phenoxyethyl isobutyrate
564	Octyl acetate	599	Phenylacetaldehyde
565	3-Octyl acetate	600	Phenylacetaldehyde 2,3- butylene glycolacetate
566	Octyl butyrate	601	Phenylacetaldehyde dimethyl acetal
567	Octyl formate	602	Phenylacetaldehyde glyceryl acetal
568	Octyl heptanoate	603	Phenylacetic acid
569	Octyl isobutyrate	604	4-Phenyl-2-butanol
570	Octyl isovalerate	605	4-Phenyl-3-buten-2-ol
571	Octyl octanoate	606	4-Phenyl-3-buten-2-one
572	Octyl phenylacetate	607	4-Phenyl-2-butyl acetate
573	Octyl propionate	608	1-Phenyl-3-methyl 3-pentanol
574	ω -Pentadecalactone	609	1-Phenyl-1-propanol
575	2.3-Pentanedione	610	3-Phenyl-1-propanol
576	2-Pentanone	611	2-Phenylpropionaldehyde
577	4-Pentenoic acid	612	3-Phenylpropionaldehyde
578	1-Penten-3-ol	613	2-Phenylpropionaldehyde dimethyl acetal
579	Perillaldehyde	614	3-Phenylpropionic acid
580	Perillyl acetate	615	3-Phenylpropyl acetate
581	α -Phellandrene	616	2- Phenylpropyl butyrate
582	Phenethyl acetate	617	3- Phenylpropyl cinnamate
583	Phenethyl alcohol	618	3- Phenylpropyl formate
584	Phenethyl anthranilate	619	3- Phenylpropyl hexanoate
585	Phenethyl benzoate	620	2- Phenylpropyl isobutyrate
586	Phenethyl butyrate	621	3- Phenylpropyl isobutyrate
587	Phenethyl cinnamate	622	3- Phenylpropyl isovalerate
588	Phenethyl formate	623	3- Phenylpropyl propionate
589	Phenethyl isobutyrate	624	2-(3-Phenylpropyl) - tetrahydrofuran
590	Phenethyl isovalerate	625	α -Pinene
591	Phenethyl 2-methylbutyrate		
592	Phenethyl phenylacetate		
593	Phenethyl propionate		

Tablo (2) (Devam)

No.	Yapay tatlandırıcı	No.	Yapay tatlandırıcı
626	B-Pinene	662	Pulegone
627	Pine tar oil	663	Pyridine
628	Pinocarveol	664	Pyroligneous acid extract
629	Piperidine	665	Pyruvaldehyde
630	Piperine	666	Pyruvic acid
631	d-Pioeritone	667	Rhodinol
632	Piperitenone	668	Rhodinyl acetate
633	Piperitone oxide	669	Rhodinyl butyrate
634	Piperonyl acetate	670	Rhodinyl formate
635	Piperonyl isobutyrate	671	Rhodinyl isobutyrate
636	Polylimonene	672	Rhodinyl isovalerate
637	Polysorbate 20	673	Rhodinyl phenylacetate
638	Polysorbate 60	674	Rhodinyl propionate
639	Polysorbate 80	675	Ethyl oxyhydrate
640	Potassium acetate	676	Salicylaldehyde
641	Propenylguaethol	677	Santalol, a and B
642	Proionaldehyde	678	Santalyl acetate
643	Propyl acetate	679	Santalyl phenylacetate
644	Propyl alcohol	680	Skatole
645	p-Propyl anisole	681	Sorbitan monostearate
646	Propyl benzoate	682	Styrene
647	Propyl butyrate	683	Sucrose octacetate
648	Propyl cinnamate	684	α -Terpinene
649	Propyl disulfide	685	γ -Terpinene
650	Propyl formate	686	α -Terpineol
651	Propyl 2-Furanacrylate	687	β -Terpineol
652	Propyl heptanoate	688	Terpinolene
653	Propyl hexanoate	689	Terpinyl acetate
654	Propyl p-hydroxybenzoate	690	Terpinyl anthranilate
655	3-Propylidenephthalide	691	Terpinyl butyrate
656	Propyl isobutyrate	692	Terpinyl cinnamate
657	Propyl isovalerate	693	Terpinyl formate
658	Propyl mercaptan	694	Terpinyl isobutyrate
659	a-Propylphenethyl alcohol	695	Terpinyl isovalerate
660	Propyl phenylacetate	696	Terpinyl propionate
661	Propyl propionate	697	Tetrahydrofurfuryl acetate

Tablo (2) (Devam)

No.	Yapay tatlandırıcı	No.	Yapay tatlandırıcı
698	Tetrahydrofurfuryl alcohol	714	p-Tolyl phenylacetate
699	Tetrahydrofurfuryl butyrate	715	2- (p-Tolyl) - propionaldehyde
700	Tetrahydrofurfuryl propionate	716	Tributyl acetyl citrate
701	Tetrahydro-pseudo-ionone	717	2-Tridecenal
702	Tetrahydro-linalool	718	2.3 - Undecadione
703	Tetramethyl ethylcyclo- hexenone	719	γ -Undecalactone
704	2-Thienyl mercaptan	720	Undecenal
705	Thymol	721	2-Undecanone
706	Tolualdehyde glyceryl acetal	722	9-Undecenal
707	Tolualdehydes, mixed o,m,p,	723	10-Undecenal
708	p-Tolylacetaldehyde	724	Undecen-1-ol
709	o-Tolyl acetate	725	10-Undecen-1-yl acetate
710	p-Tolyl acetate	726	Undecyl alcohol
711	4-(p-Tolyl)-2-butanone	727	Valeraldehyde
712	p-Tolyl isobutyrate	728	Vanillin
713	p-Tolyl laurate	729	Ethyl vanillin
		730	Ethyl methyl phenyl glycidate

Tablo (3)

Gıda maddelerinde kullanımına izin verilen lezzet arttırıcılar

No.	Lezzet arttırıcı	No.	Lezzet arttırıcı
1-	Calcium 5 - Guanylate	11-	Inosinic acid
2-	Calcium 5 - Inosinate	12-	Magnesium D1 - L Glutamate
3-	Calcium 5 - Ribonucleoides	13-	Monoammonium L-Glutamate
4-	Calcium D1 - L Glutamate	14-	Monoglyceride citrate
5-	Disodium 5 - Guanylate	15-	Monopotassium L-Glutamate
6-	Disodium 5 - Inosinate	16-	Monosodium L-Glutamate
7-	Disodium 5 - Ribonucleotides	17-	Thaumatococcus
8-	Ethyl maltol	18-	Acesulfam potassium
9-	Glutamic acid		
10-	Guanylic acid		

Tablo (4)

Doğal tatlandırıcı elde edilmeye uygun olmayan bitki listesi

Latince botanik ismi	İngilizce / Türkçe ismi	Yasaklanan kısım
- Anemone hepatica	Liver wort (koyun otu)	Otları
- Atropa belladonna	Deadly night shade (güzel avrat otu)	Bitkinin tümü
- Bryonia alba	White bryony (şeytan şalgamı)	Kökleri
- Chenopodium ambrosioides	Mexican goose foot (meksika kaz ayağı)	Otları
- Convallaria mayalis	Lily of the valley (inci çiçeği)	Bitkinin tümü
- Daphne mezereum	Mezereum	Bitkinin tümü
- Dryopteris filix-mass	Male fern (erkek eğrelti otu)	toprakaltı gövdesi
- Heliotropium europaeum	Heliotrope (akrep otu)	Yaprakları
- Piscida erythrina	Jamaica dogswood (Jamaika barut ağacı)	Kökler
- Polypodium vulgare	Polypody	Kökleri
- Punica granatum	Pomegranate tree (nar ağacı)	Kökleri
- Urginea scilla	Squill (ada soğanı)	Soğan kısmı

5- TEST

5.1 Örnek alma

Örnek alma uygun gıda ürünleri standartında belirtilen yöntemlere göre yapılacaktır.

6- TEST YÖNTEMİ

6.1 Testler “Gıda Ürünlerinde Kullanımına İzin verilen tatlandırıcılar için test Yöntemleri” GSO standartına göre gerçekleştirilecektir.

6.2 Testler işbu standart ile uygunluğu belirlemeye yönelik Madde 5’e göre temsili örnek alınmak suretiyle gerçekleştirilecektir.

7- PAKETLEME, NAKLİYE VE SAKLAMA

Paketleme, nakliye ve saklama süreçlerinde aşağıdaki gereklilikler yerine getirilecektir :

7.1 Paketleme

Ürün havayla temas etmesine ve kontaminasyona engel olacak şekilde sıkıca kapatılıp izole edilmiş hijyenik paketler içinde paketleneyecektir.

7.2 Nakliye

Kaplar ve paketler kırılmayacak veya zarar görmeyecek şekilde nakledilecektir.

7.3 Saklama

Kaplar ve paketler doğrudan güneş ışığı almayacak ve kontaminasyona uğramayacak şekilde kuru ve soğuk bir ortamda saklanacaktır.

8- ETİKETLEME

Madde 2.1’de belirtilen GSO standartı gerekliliklerine aykırı olmayacak şekilde aşağıdaki bilgiler tatlandırıcı içeren gıda maddelerinin üzerinde Arapça olarak yer alacaktır :

8.1 Genel ismi .

8.2 Kod numarası (varsa).

Düzeltilme (1) :

Sayfa 6, Tablo 2 :

" Ethyl burate" kelimesini : " Ethyl laurate" ile deęiřtirin.