

# GRAS

## Flavoring Substances

# 29

**29. GRAS FLAVORING SUBSTANCES:** This list of substances will appear in the 29th publication authored by the Expert Panel of the Flavor and Extract Manufacturers Association on recent progress in the consideration of flavoring ingredients “generally recognized as safe” (GRAS) under conditions of their intended use in food flavorings in accordance with the 1958 Food Additives Amendment to the Federal Food, Drug and Cosmetic Act. For more information on FEMA GRAS see “About the FEMA GRAS Program” on the FEMA website.

**FEMA EXPERT PANEL: S.M. COHEN, G. EISENBRAND, S. FUKUSHIMA, N.J. GOODERHAM, F.P. GUENGERICH, S.S. HECHT, I.M.C.M. RIETJENS, T.J. ROSOL**

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## GRAS FLAVORING SUBSTANCES 29

### STATEMENT REGARDING GENERALLY RECOGNIZED AS SAFE STATUS OF ETHYL NITRITE

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The FEMA GRAS status of ethyl nitrite (CAS 109-95-8; FEMA 2446) under the conditions of intended use as a flavor ingredient was reviewed by the FEMA Expert Panel. After reviewing the available information relevant to the FEMA GRAS status of ethyl nitrite, the Expert Panel concluded that additional data are required to support the continuation of GRAS status. Such data should include testing for vascular effects and GLP-compliant *in vitro* and *in vivo* genotoxicity testing of ethyl nitrite. Until such studies become available for review by the Expert Panel, the flavor ingredient ethyl nitrite has been removed from the FEMA GRAS list.

**TABLE 1 – Primary Names & Synonyms**

Primary names (in boldface) &amp; Synonyms (in lightface).

FEMA NO.	SUBSTANCE PRIMARY NAMES AND SYNONYMS
4879	<b>1-(3,5,5,6,8-Hexamethyl-5,6,7,8-tetrahydronaphthalen-2-yl)ethanone</b> AHTN 6-Acetyl-1,1,2,4,4,7-hexamethyltetralin 6-Acetyl-1,1,2,4,4,7-hexamethyltetraline 7-Acetyl-1,1,3,4,4,6-hexamethyl-1,2,3,4-tetra-hydronaphthalene 7-Acetyl-1,1,3,4,4,6-hexamethyltetralin 7-Acetyl-1,1,3,4,4,6-hexamethyltetraline Acetylhexamethyltetrahydronaphthalene
4880	<b>2-(4-Ethylphenoxy)-N-(1H-pyrazol-3-yl)-N-(thiophen-2-ylmethyl)acetamide</b> 2-(4-Ethylphenoxy)-N-(1H-pyrazol-5-yl)-N-(thiophen-2-ylmethyl)acetamide
4881	<b>N-(3-Hydroxy-4-methoxyphenyl)-2-isopropyl-5,5-dimethylcyclohexanecarboxamide</b>
4882	<b>N-(4-(Cyanomethyl)phenyl)-2-isopropyl-5,5-dimethylcyclohexanecarboxamide</b>
4883	<b>5-Allyl-L-cysteine sulfoxide</b> Alliin (S)-3-(Allylsulphinyl)-L-alanine
4884	<b>6-Methyl-5-hepten-2-ol</b> (+/-)-6-Methyl-5-hepten-2-ol Sulcatol (+/-)-Sulcatol 2-Methyl-2-hepten-6-ol 6-Hydroxy-2-methyl-2-heptene 6-Methylhept-5-en-2-ol
4885	<b>trans-5-Dodecenal</b> (5E)-Dodecenal
4886	<b>cis-6-Dodecenal</b> (Z)-6-Dodecenal
4887	<b>cis-9-Dodecenal</b> (9Z)-Dodecenal
4888	<b>Mixture of 5-hydroxy-4-(4'-hydroxy-3'-methoxyphenyl)-7-methylchroman-2-one and 7-hydroxy-4-(4'-hydroxy-3'-methoxyphenyl)-5-methylchroman-2-one</b>
4889	<b>Methyl propyl sulfide</b> 2-Thiapentane
4890	<b>3-p-Menthen-7-al</b>
4891	<b>(E)-3-Methyl-4-dodecenoic acid</b>
4892	<b>cis-2-Hexylcyclopropaneacetic acid</b>
4893	<b>2-Ethoxy-4-(hydroxymethyl)phenol</b> 3-Ethoxy-4-hydroxybenzyl alcohol Ethyl vanillyl alcohol p-(Hydroxymethyl)guethol
4894	<b>2-Mercapto-3-methyl-1-butanol</b>
4895	<b>Rebaudioside M</b> Rebaudioside X
4896	<b>N-(2-Hydroxy-2-phenylethyl)-2-isopropyl-5,5-dimethylcyclohexane-1-carboxamide</b>
4897	<b>Allulose</b> D-Psicose
4898	<b>trans-5-Octenal</b> (5E)-5-Octenal (E)-5-Octen-1-al
4899	<b>N-(1-((4-Amino-2,2-dioxido-1H-benzo[c][1,2,6]thiadiazin-5-yl)oxy)-2-methylpropan-2-yl)-2,6-dimethylisonicotinamide (sulfate salt)</b>

FEMA NO.	SUBSTANCE PRIMARY NAMES AND SYNONYMS
4900	<b>Hexyl propyl disulfide</b> 1-Hexyl propyl disulfide 1-Hexyl-2-propyldisulfane 4,5-Dithiaundecane
4901	<b>O-Ethyl 5-(3-methylbut-2-en-1-yl)thiocarbonate</b>
4902	<b>3-Methyl-2(5H)-furanone</b> $\alpha$ -Methyl- $\gamma$ -crotonolactone 2-Methyl-2-butenolide 2-Methylbut-2-en-4-olide 4-Hydroxy-2-methyl-2-butenic acid $\gamma$ -lactone 4-Hydroxy-2-methyl-2-butenic acid lactone
4903	<b>Ethyl 3-methyl-2-oxopentanoate</b> Ethyl 2-oxo-3-methylpentanoate Ethyl 2-oxo-3-methylvalerate
4904	<b>trans-Tetradec-4-enal</b>
4905	<b>2,6-Dimethylheptenyl formate</b>
4906	<b>L-Carnitine tartrate</b> Levocarnitine tartrate L-Carnitine-L-tartrate
4907	<b>Corynebacterium glutamicum corn syrup fermentation product</b>
4908	<b>Corynebacterium stationis corn syrup fermentation product</b>
4909	<b>Glucosylated steviol glycosides, 70-80%</b>
4910	<b>Glucosylated steviol glycosides, 40%</b>
4911	<b>Stevia extract stevioside, 70%</b>
4912	<b>Hibiscus blossom extract</b> <i>Hibiscus sabdariffa</i> L. extract Roselle extract
4913	<b>3,7-Dimethyl-2-methyleneoct-6-en-1-ol</b>
4914	<b>bis-(3-Methyl-2-butenyl)disulfide</b> bis-(3-Methyl-2-buten-1-yl)disulfide
4915	<b>(5Z)-3,4-Dimethyl-5-propylidene-2(5H)-furanone</b>
4916	<b>2-Methyl-3-butene-2-thiol</b> $\alpha,\alpha$ -Dimethyl allyl mercaptan
4917	<b>(Z)-9-Dodecenoic acid</b> (9Z)-9-Dodecenoic acid 9-Dodecenoic acid, (Z)- cis-9-Dodecenoic acid Lauroleic acid
4918	<b>Tridec-5-enal</b>
4919	<b>Refined soybean oil extract</b>
4920	<b>1-Ethyl-2-(1-pyrrolylmethyl)pyrrole</b>
4921	<b>Rebaudioside D 95%</b>
4922	<b>Rebaudioside M 95%</b> Rebaudioside X 95%

**TABLE 1 CONTINUED - Primary Names & Synonyms**

Primary names (in boldface) &amp; Synonyms (in lightface).

FEMA NO.	SUBSTANCE PRIMARY NAMES AND SYNONYMS
4923	<b>Buchu leaves extract</b> <i>Barosma betulina</i> Bartl. et Wendl. leaves extract <i>B. crenulata</i> (L.) Hook leaves extract <i>B. serratifolia</i> Willd. leaves extract
4924	<b>Peppermint oil terpeneless</b> <i>Mentha piperita</i> L. oil terpeneless
4925	<b>Spearmint oil terpeneless</b> <i>Mentha spicata</i> L. oil terpeneless
4926	<b>(Z)-8-Pentadecenal</b>
4927	<b>4,7-Decadienal</b>
4928	<b>2-Methylthiophene</b>
4929	<b>4-Methylidene-2-(2-methylprop-1-enyl)oxane</b>
4930	<b>4-Isopropoxycinnamaldehyde</b>
4931	<b>Glucosylated steviol glycosides, 90%</b>
4932	<b><i>Chaenomeles speciosa</i> leaf extract</b>
4933	<b><i>Eriobotrya japonica</i> leaves extract</b>
4934	<b>Sodium gluconate</b> <i>D</i> -Gluconic acid, monosodium salt Sodium <i>D</i> -gluconate
4935	<b>3-Methylbutane-1,3-dithiol</b>
4936	<b>Rebaudioside E ≥85%</b>
4937	<b>Rebaudioside I 95%</b>
4938	<b>5-Methyl 5-(1-ethoxyethoxy)tetradecanethioate</b>
4939	<b>5-Methyl 5-(1-ethoxyethoxy)decanethioate</b>
4940	<b>beta-Bisabolene ≥88%</b>
4941	<b>Nootkatone complex</b>
4942	<b>Modified guaiac wood extract</b> <i>Guaiacum</i> spp. wood extract

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**TABLE 2 – Average Usual Use Levels/Average Maximum Use Levels**

Average Usual Use Levels (ppm)/Average Maximum Use Levels (ppm) for new FEMA GRAS Flavoring Substances on which the FEMA Expert Panel based its judgments that the substances are generally recognized as safe (GRAS)

	1-(3,5,5,6,8-Hexamethyl-5,6,7,8-tetrahydronaphthalen-2-yl)ethanone	2-(4-Ethylphenoxy)-N-(1H-pyrazol-3-yl)-N-(thiophen-2-ylmethyl)acetamide	N-(3-Hydroxy-4-methoxyphenyl)-2-isopropyl-5,5-dimethylcyclohexanecarboxamide	N-(4-(Cyanomethyl)phenyl)-2-isopropyl-5,5-dimethylcyclohexanecarboxamide	5-Allyl-L-cysteine sulfoxide	6-Methyl-5-hepten-2-ol	trans-5-Dodecenal	cis-6-Dodecenal	cis-9-Dodecenal	Mixture of 5-hydroxy-4-(4-hydroxy-3-methoxyphenyl)-7-methylchroman-2-one and 7-hydroxy-4-(4-hydroxy-3-methoxyphenyl)-5-methylchroman-2-one
CATEGORY/FEMA NO.	4879	4880	4881	4882	4883	4884	4885	4886	4887	4888
BAKED GOODS	0/0	3/15	0/0	0/0	100/500	10/50	0/0	0/0	0/0	45/60
BEVERAGES, NON-ALCOHOLIC	3/7.5	1/3	0.1/10	0.1/10	0/0	5/25	0.03/0.3	0.02/0.5	0.01/0.4	30/45
BEVERAGES, ALCOHOLIC	0/0	2/6	0.1/10	0.1/10	0/0	10/50	0.15/0.6	0.1/1.5	0.06/1	45/60
BREAKFAST CEREALS	0/0	3/15	0/0	0/0	0/0	5/25	0/0	0/0	0/0	45/60
CHEESES	0/0	0/0	0/0	0/0	200/1000	7/35	0/0	0/0	0/0	0/0
CHEWING GUM	1/2	75/150	1/100	1/100	0/0	0/0	0.3/1	0.25/2.5	0.25/2.5	0/0
CONDIMENTS AND RELISHES	0/0	3/15	0.1/10	0.1/10	100/500	5/25	0/0	0/0	0/0	30/45
CONFECTIONS AND FROSTINGS	0/0	5/30	1/100	1/100	0/0	10/50	0.15/0.6	0.1/1	0.06/1	45/60
EGG PRODUCTS	0/0	3/15	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0
FATS AND OILS	0/0	3/15	0.05/5	0.05/5	800/5000	5/25	0.15/0.6	0.1/1	0.05/1	0/0
FISH PRODUCTS	0/0	0/0	0/0	0/0	100/500	2/10	0/0	0/0	0/0	0/0
FROZEN DAIRY	0/0	1/3	0.1/10	0.1/10	0/0	0/0	0.03/0.3	0.02/0.5	0.01/0.5	45/60
FRUIT ICES	1/2	1/3	0.1/10	0.1/10	0/0	10/50	0.03/0.3	0.02/0.5	0.01/0.25	30/45
GELATINS AND PUDDINGS	0/0	1/3	0.05/5	0.05/5	0/0	0/0	0.03/0.3	0.02/0.5	0.01/0.25	45/60
GRANULATED SUGAR	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	45/60
GRAVIES	0/0	3/15	0.05/5	0.05/5	0/0	5/25	0/0	0/0	0/0	0/0
HARD CANDY	1/2	5/15	0.1/10	0.1/10	0/0	0/0	0.15/0.6	0.1/1	0.05/1	30/45
IMITATION DAIRY	0/0	1/3	0.05/5	0.05/5	0/0	7/35	0/0	0/0	0/0	30/45
INSTANT COFFEE AND TEA	0/0	1/3	0.01/1	0.01/1	0/0	5/25	0.01/0.5	0.02/0.5	0.01/0.5	0/0
JAMS AND JELLIES	0/0	1/3	0.1/10	0.1/10	0/0	20/100	0.15/0.6	0.02/0.5	0.01/0.5	45/60
MEAT PRODUCTS	0/0	3/15	0/0	0/0	200/500	2/10	0/0	0/0	0/0	0/0
MILK PRODUCTS	0/0	1/3	0.05/5	0.05/5	0/0	7/35	0/0	0/0	0/0	45/60
NUT PRODUCTS	0/0	1/3	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0
OTHER GRAINS	0/0	0/0	0/0	0/0	100/500	5/25	0/0	0/0	0/0	0/0
POULTRY	0/0	3/15	0/0	0/0	200/500	2/10	0/0	0/0	0/0	0/0
PROCESSED FRUITS	0/0	1/3	0/0	0/0	0/0	7/35	0.03/0.3	0.02/0.5	0.01/0.5	45/60
PROCESSED VEGETABLES	0/0	3/15	0/0	0/0	100/500	0/0	0/0	0/0	0/0	0/0
RECONSTITUTED VEGETABLE PROTEIN	0/0	3/15	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0
SEASONINGS AND FLAVORS	0/0	3/15	3/900	3/900	200/1500	5/25	0.06/0.6	0.04/1	0.02/1	0/0
SNACK FOODS	0/0	3/15	0.1/10	0.1/10	100/500	10/50	0/0	0/0	0/0	0/0
SOFT CANDY	1/2	5/15	0.1/10	0.1/10	0/0	0/0	0.05/1	0.1/1	0.05/1	30/45
SOUPS	0/0	3/15	0.1/10	0.1/10	200/2500	5/25	0/0	0/0	0/0	0/0
SUGAR SUBSTITUTES	0/0	0/0	0.005/0.5	0.005/0.5	0/0	0/0	0/0	0/0	0/0	45/60
SWEET SAUCES	0/0	5/15	0.5/50	0.5/50	0/0	5/25	0/0	0/0	0/0	0/0

GRAS FLAVORING SUBSTANCES 29

**TABLE 2 CONTINUED - Average Usual Use Levels/Average Maximum Use Levels**

Average Usual Use Levels (ppm)/Average Maximum Use Levels (ppm) for new FEMA GRAS Flavoring Substances on which the FEMA Expert Panel based its judgments that the substances are generally recognized as safe (GRAS)

	Methyl propyl sulfide	3-p-Menthen-7-ol	(E)-3-Methyl-4-dodecenoic acid	Hexyl cyclopropaneacetic acid cis-2-	2-Ethoxy-4-(hydroxymethyl)phenol	2-Mercapto-3-methyl-1-butanol	Rebaudioside M	N-(2-Hydroxy-2-phenylethyl)-2-isopropyl-5,5-dimethylcyclohexane-1-carboxamide	Allulose	trans-5-Octenal	N-(1-((4-Amino-2,2-dioxido-1H-benzo[c][1,2,6]thiadiazin-5-yl)oxy)-2-methylpropan-2-yl)-2,6-dimethylisonicotinamide (sulfate salt)
CATEGORY/FEMA NO.	4889	4890	4891	4892	4893	4894	4895	4896	4897	4898	4899
BAKED GOODS	0.1/1	0.001/0.01	0.1/1	0.001/0.01	50/200	0.001/1	0/0	0/0	0/0	5/50	0/0
BEVERAGES, NON-ALCOHOLIC	0.002/0.1	0.0003/0.005	0.001/0.1	0.0002/0.005	25/100	0.0001/0.1	15/20	1/100	15000/20000	2.5/25	18/27
BEVERAGES, ALCOHOLIC	0.006/0.3	0.0003/0.005	0.001/0.1	0.0002/0.005	20/50	0.0001/0.1	0/0	1/100	15000/15000	2.5/25	18/27
BREAKFAST CEREALS	0.01/1	0/0	0/0	0/0	30/50	0/0	0/0	0/0	0/0	10/100	20/27
CHEESES	0.01/2	0.001/0.01	0/0	0/0	5/10	0/0	0/0	0/0	0/0	0/0	0/0
CHEWING GUM	0/0	0.001/0.01	0.001/0.1	0.001/0.01	1000/2500	0/0	0/0	10/1000	0/0	50/250	27/27
CONDIMENTS AND RELISHES	0.01/2	0.01/0.1	0/0	0.001/0.01	10/30	0/0	0/0	1/100	0/0	0/0	20/27
CONFECTIONS AND FROSTINGS	0/0	0.001/0.01	0.001/0.3	0.0005/0.005	30/50	0/0	0/0	10/1000	0/0	5/50	27/27
EGG PRODUCTS	0.01/1	0/0	0.001/0.3	0.0005/0.005	5/10	0/0	0/0	0/0	0/0	0/0	0/0
FATS AND OILS	0.01/0.1	0.01/0.1	0.01/1	0.01/0.1	30/50	0/0	0/0	0.5/50	0/0	3/30	0/0
FISH PRODUCTS	0.01/2	0/0	0.001/0.3	0.001/0.01	5/10	0/0	0/0	0/0	0/0	3/30	0/0
FROZEN DAIRY	0/0	0.001/0.01	0.001/0.2	0.001/0.01	20/50	0.0001/0.1	15/20	1/100	0/0	5/50	18/27
FRUIT ICES	0/0	0.0005/0.01	0.001/0.2	0.0005/0.005	5/10	0/0	15/20	1/100	0/0	5/50	18/27
GELATINS AND PUDDINGS	0/0	0.0005/0.01	0.01/0.1	0.0005/0.005	40/80	0.0001/0.1	0/0	0.5/50	0/0	10/100	18/27
GRANULATED SUGAR	0/0	0/0	0/0	0/0	5/10	0/0	0/0	0/0	0/0	0/0	0/0
GRAVIES	0/0	0/0	0.001/0.05	0/0	5/10	0/0	0/0	0.5/50	0/0	0.5/5	0/0
HARD CANDY	0/0	0.001/0.01	0.001/0.3	0.001/0.01	200/500	0/0	0/0	1/100	0/0	10/50	27/27
IMITATION DAIRY	0/0	0/0	0.0001/0.05	0.001/0.01	20/50	0/0	15/20	0.5/50	0/0	3/30	10/27
INSTANT COFFEE AND TEA	0.01/0.1	0/0	0.0001/0.1	0.0002/0.005	15/30	0.0001/0.1	15/20	0.1/10	0/0	5/50	10/27
JAMS AND JELLIES	0/0	0.0005/0.01	0/0	0.0005/0.005	20/50	0/0	0/0	1/100	0/0	5/50	18/27
MEAT PRODUCTS	0.01/2	0.001/0.01	0/0	0/0	5/10	0/0	0/0	0/0	0/0	0/0	0/0
MILK PRODUCTS	0.01/0.5	0/0	0.001/0.05	0.001/0.01	20/50	0.0001/0.01	15/20	0.5/50	15000/15000	3/30	18/27
NUT PRODUCTS	0.01/2	0/0	0.001/0.05	0.001/0.01	60/200	0/0	0/0	0/0	0/0	3/30	0/0
OTHER GRAINS	0.01/0.2	0/0	0/0	0/0	5/10	0/0	0/0	0/0	0/0	0/0	0/0
POULTRY	0.01/2	0/0	0/0	0/0	5/10	0/0	0/0	0/0	0/0	0/0	0/0
PROCESSED FRUITS	0/0	0/0	0/0	0/0	20/50	0/0	15/20	0/0	0/0	0/0	0/0
PROCESSED VEGETABLES	0.01/0.05	0/0	0/0	0/0	5/10	0/0	0/0	0/0	0/0	0/0	0/0
RECONSTITUTED VEGETABLE PROTEIN	0.01/0.05	0/0	0/0	0/0	5/10	0/0	0/0	0/0	0/0	0/0	0/0
SEASONINGS AND FLAVORS	0.001/2	0.05/0.3	0.01/2	0.01/0.2	100/200	0/0	0/0	30/9000	0/0	0/0	0/0
SNACK FOODS	0.2/2	0.003/0.1	0.001/0.3	0.001/0.01	20/50	0/0	0/0	1/100	0/0	15/150	0/0
SOFT CANDY	0/0	0.001/0.01	0.001/0.3	0.001/0.01	100/300	0/0	0/0	1/100	0/0	10/100	20/27
SOUPS	0.02/2	0.0005/0.01	0.0001/0.3	0.0002/0.005	5/10	0/0	0/0	1/100	0/0	0.5/5	0/0
SUGAR SUBSTITUTES	0/0	0/0	0.001/0.05	0/0	10/30	0/0	0/0	0.05/5	0/0	0/0	0/0
SWEET SAUCES	0/0	0.001/0.01	0/0	0.001/0.01	10/30	0/0	0/0	5/500	0/0	10/100	18/27

GRAS FLAVORING SUBSTANCES 29

**TABLE 2 CONTINUED - Average Usual Use Levels/Average Maximum Use Levels**

Average Usual Use Levels (ppm)/Average Maximum Use Levels (ppm) for new FEMA GRAS Flavoring Substances on which the FEMA Expert Panel based its judgments that the substances are generally recognized as safe (GRAS)

	Hexyl propyl disulfide	O-Ethyl 5-(3-methylbut-2-en-1-yl)thiocarbonate	3-Methyl-2(5H)-furanone	Ethyl 3-methyl-2-oxopentanoate	trans-Tetradec-4-enal	2,6-Dimethylheptenyl formate	L-Carnitine tartrate	Corynebacterium glutamicum com syrup fermentation product	Corynebacterium stationis com syrup fermentation product	Glucosylated xeriol glycosides, 70-80%	Glucosylated xeriol glycosides, 40%
CATEGORY/FEMA NO.	4900	4901	4902	4903	4904	4905	4906	4907	4908	4909	4910
<b>BAKED GOODS</b>	0.4/20	0/0	0.01/20	10/100	0.5/35	0.5/30	750/1250	0/0	0/0	0/0	30/135
<b>BEVERAGES, NON-ALCOHOLIC</b>	0.1/10	0.0001/0.003	0.001/10	5/50	0.1/10	0.1/5	750/1250	0/0	0/0	55/65	30/135
<b>BEVERAGES, ALCOHOLIC</b>	0.3/30	0.0002/0.006	0.001/10	2.5/25	0.3/20	0.3/15	750/1250	0/0	0/0	0/0	30/135
<b>BREAKFAST CEREALS</b>	0.2/20	0.005/0.015	0/0	5/50	0.3/25	0.3/20	0/0	0/0	0/0	0/0	30/135
<b>CHEESES</b>	0.3/30	0/0	0/0	0/0	0.1/10	0.1/5	0/0	0/0	0/0	0/0	30/135
<b>CHEWING GUM</b>	1/30	0/0	0.01/20	10/100	2.5/55	2.5/50	0/0	0/0	0/0	0/0	30/135
<b>CONDIMENTS AND RELISHES</b>	0.5/30	0/0	0/0	0/0	0.3/20	0.3/15	750/1250	3400/5100	1120/1680	0/0	30/135
<b>CONFECTIONS AND FROSTINGS</b>	0.1/10	0.005/0.015	0/0	5/50	0.2/15	0.2/10	0/0	0/0	0/0	0/0	30/135
<b>EGG PRODUCTS</b>	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0
<b>FATS AND OILS</b>	0.1/30	0/0	0/0	5/50	0.3/20	0.3/15	750/1250	3400/5100	1120/1680	0/0	30/135
<b>FISH PRODUCTS</b>	0.1/30	0/0	0/0	0/0	0.3/20	0.3/15	750/1250	1800/2700	600/900	0/0	0/0
<b>FROZEN DAIRY</b>	0.1/10	0.005/0.015	0.001/10	5/50	0.5/25	0.5/20	0/0	0/0	0/0	55/65	30/135
<b>FRUIT ICES</b>	0.1/10	0/0	0/0	5/50	0.4/25	0.4/20	0/0	0/0	0/0	0/0	30/135
<b>GELATINS AND PUDDINGS</b>	0.1/10	0.005/0.015	0/0	5/50	0.4/25	0.4/20	0/0	0/0	0/0	0/0	30/135
<b>GRANULATED SUGAR</b>	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0
<b>GRAVIES</b>	0.2/40	0/0	0/0	0/0	0.2/25	0.2/20	750/1250	1667/2500	847/1270	0/0	30/135
<b>HARD CANDY</b>	0.1/15	0.005/0.15	0.01/20	10/100	0.3/25	0.3/20	0/0	0/0	0/0	0/0	30/135
<b>IMITATION DAIRY</b>	0/0	0.0001/0.003	0/0	2.5/25	0/0	0/0	0/0	0/0	0/0	55/65	30/135
<b>INSTANT COFFEE AND TEA</b>	0.1/10	0.0001/0.003	0.001/10	5/50	0.3/25	0.3/20	0/0	0/0	0/0	55/65	30/135
<b>JAMS AND JELLIES</b>	0.1/15	0.005/0.015	0/0	2.5/25	0.5/35	0.5/30	0/0	0/0	0/0	0/0	30/135
<b>MEAT PRODUCTS</b>	0.2/35	0/0	0/0	0/0	0.2/15	0.2/10	750/1250	1800/2700	600/900	0/0	0/0
<b>MILK PRODUCTS</b>	0.1/10	0.0001/0.003	0.001/10	2.5/25	0.3/15	0.3/10	0/0	0/0	0/0	55/65	30/135
<b>NUT PRODUCTS</b>	0.1/20	0.005/0.015	0/0	5/50	0.2/10	0.2/5	0/0	0/0	0/0	0/0	30/135
<b>OTHER GRAINS</b>	0/0	0/0	0/0	5/50	0/0	0/0	750/1250	0/0	0/0	0/0	30/135
<b>POULTRY</b>	0.2/40	0/0	0/0	0/0	0.3/15	0.3/10	750/1250	0/0	0/0	0/0	0/0
<b>PROCESSED FRUITS</b>	0.1/40	0/0	0/0	0/0	0.4/20	0.4/15	0/0	0/0	0/0	0/0	30/135
<b>PROCESSED VEGETABLES</b>	0.1/40	0/0	0/0	0/0	0/0	0/0	750/1250	0/0	0/0	0/0	30/135
<b>RECONSTITUTED VEGETABLE PROTEIN</b>	0.1/40	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0
<b>SEASONINGS AND FLAVORS</b>	50/500	0/0	0/0	10/100	20/100	20/100	0/0	2667/4000	893/1340	0/0	30/135
<b>SNACK FOODS</b>	0.1/50	0.005/0.015	0/0	2.5/25	0.3/20	0.3/15	750/1250	0/0	0/0	0/0	30/135
<b>SOFT CANDY</b>	0.1/15	0.005/0.015	0.01/20	5/50	0.3/20	0.3/20	0/0	0/0	0/0	0/0	30/135
<b>SOUPS</b>	0.1/40	0/0	0/0	2.5/25	0.2/25	0.2/20	750/1250	1667/2500	847/1270	0/0	30/135
<b>SUGAR SUBSTITUTES</b>	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0
<b>SWEET SAUCES</b>	0.1/20	0.005/0.015	0/0	2.5/25	0.3/25	0.3/20	0/0	0/0	0/0	0/0	30/135

GRAS FLAVORING SUBSTANCES 29

**TABLE 2 CONTINUED - Average Usual Use Levels/Average Maximum Use Levels**

Average Usual Use Levels (ppm)/Average Maximum Use Levels (ppm) for new FEMA GRAS Flavoring Substances on which the FEMA Expert Panel based its judgments that the substances are generally recognized as safe (GRAS)

	Stevia extract stevioside, 70%	Hibiscus blossom extract	3,7-Dimethyl-2-methylenecyclohex-1-ene	bis-(3-Methyl-2-butenyl) disulfide	(5Z)-3,4-Dimethyl-5-propylidene-2(5H)-furanone	2-Methyl-3-butene-2-thiol	(Z)-9-Dodecenoic acid	Tridec-5-enal	Refined soybean oil extract	1-Ethyl-2-(1-pyrrolyl)methylpyrrole
CATEGORY/FEMA NO.	4911	4912	4913	4914	4915	4916	4917	4918	4919	4920
BAKED GOODS	100/200	600/5000	5/50	0.1/1	0/0	0.001/0.05	1/10	0.5/35	1/5	0.00001/0.002
BEVERAGES, NON-ALCOHOLIC	50/50	300/10000	1/10	0.005/0.05	0.01/0.1	0.0001/0.002	0.02/0.2	0.1/10	0.2/2	0.00001/0.002
BEVERAGES, ALCOHOLIC	50/50	0/0	1/10	0.005/0.05	0.01/0.1	0.0001/0.002	0.02/0.2	0.3/20	0.2/2	0.00001/0.002
BREAKFAST CEREALS	100/250	600/5000	0/0	0.1/1	0/0	0/0	0.05/5	0.3/25	1/5	0/0
CHEESES	50/50	0/0	2/20	0.1/1	0/0	0.0005/0.005	0.2/2	0.1/10	0/0	0/0
CHEWING GUM	50/50	1200/10000	50/500	0.1/1	0/0	0.001/0.02	0.1/1	2.5/55	1/5	0/0
CONDIMENTS AND RELISHES	50/50	0/0	0/0	0.1/1	0.1/1	0.001/0.01	0.1/1	0.3/20	0.5/2	0.00001/0.002
CONFECTIONS AND FROSTINGS	50/50	1200/5000	10/100	0.1/1	0/0	0.0005/0.005	0.1/1	0.2/15	0.5/2	0/0
EGG PRODUCTS	50/50	0/0	0/0	0.1/1	0/0	0.0002/0.002	0.05/0.5	0/0	0/0	0/0
FATS AND OILS	50/50	0/0	10/100	0.1/1	0/0	0/0	0.5/5	0.3/20	0/0	0.00001/0.002
FISH PRODUCTS	50/50	0/0	0/0	0.1/1	0/0	0/0	0.05/0.5	0.3/20	0/0	0/0
FROZEN DAIRY	50/50	600/5000	2/20	0.1/1	0/0	0.0002/0.003	0.05/0.5	0.5/25	0.2/2	0/0
FRUIT ICES	50/50	600/5000	2/20	0.1/1	0.001/0.01	0.0002/0.003	0.05/0.5	0.4/25	0.2/2	0/0
GELATINS AND PUDDINGS	50/50	600/5000	2/20	0.1/1	0.001/0.01	0.0002/0.003	0.05/0.5	0.4/25	0/0	0/0
GRANULATED SUGAR	0/0	0/0	0/0	0.1/1	0/0	0/0	0/0	0/0	0/0	0/0
GRAVIES	50/50	0/0	0/0	0.1/1	0/0	0.001/0.01	0.05/0.5	0.2/25	1/5	0/0
HARD CANDY	50/50	1200/5000	10/100	0.1/1	0.1/5	0.001/0.01	0.05/0.5	0.3/25	1/5	0/0
IMITATION DAIRY	50/50	1200/5000	0/0	0.1/1	0/0	0/0	0.5/5	0/0	0/0	0/0
INSTANT COFFEE AND TEA	50/50	600/1000	0/0	0.1/1	0.01/0.1	0.0003/0.005	0.02/0.2	0.3/25	0.2/2	0.00001/0.002
JAMS AND JELLIES	50/50	0/0	5/100	0.1/1	0/0	0/0	0.05/0.5	0.5/35	0/0	0/0
MEAT PRODUCTS	0/0	0/0	0/0	0.1/1	0/0	0.001/0.01	0.05/0.5	0.2/15	1/5	0/0
MILK PRODUCTS	50/50	900/5000	2/20	0.1/1	0.01/0.1	0.0001/0.002	0.5/5	0.3/15	1/5	0/0
NUT PRODUCTS	50/50	0/0	0/0	0.1/1	0/0	0/0	0.05/0.5	0.2/10	1/5	0.00001/0.002
OTHER GRAINS	50/50	0/0	0/0	0.1/1	0/0	0/0	0.05/0.5	0/0	0/0	0/0
POULTRY	0/0	0/0	0/0	0.1/1	0/0	0/0	0.05/0.5	0.3/15	1/5	0/0
PROCESSED FRUITS	50/50	0/0	2/20	0.1/1	0/0	0/0	0/0	0.4/20	0/0	0/0
PROCESSED VEGETABLES	50/50	0/0	0/0	0.1/1	0/0	0/0	0/0	0/0	0/0	0/0
RECONSTITUTED VEGETABLE PROTEIN	50/50	0/0	0/0	0.1/1	0/0	0/0	0/0	0/0	0/0	0/0
SEASONINGS AND FLAVORS	50/50	0/0	0/0	0.1/1	0.01/0.1	0.1/1	0.05/0.5	20/50	1/5	0/0
SNACK FOODS	50/50	0/0	0/0	0.1/1	0.01/0.1	0.005/0.1	0.05/0.5	0.3/20	1/5	0/0
SOFT CANDY	50/50	900/5000	10/100	0.1/1	0/0	0.001/0.01	0.10/1	0.3/20	1/5	0/0
SOUPS	50/50	0/0	0/0	0.1/1	0/0	0.003/0.005	0.02/0.2	0.2/25	1/5	0.00001/0.002
SUGAR SUBSTITUTES	50/50	0/0	0/0	0.1/1	0/0	0/0	0/0	0/0	0/0	0/0
SWEET SAUCES	50/50	600/5000	0/0	0.1/1	0.1/5	0.001/0.01	0.05/2	0.3/25	0/0	0/0



GRAS FLAVORING SUBSTANCES 29

**TABLE 2 CONTINUED - Average Usual Use Levels/Average Maximum Use Levels**

Average Usual Use Levels (ppm)/Average Maximum Use Levels (ppm) for new FEMA GRAS Flavoring Substances on which the FEMA Expert Panel based its judgments that the substances are generally recognized as safe (GRAS)

	Rebaudioside D 95%	Rebaudioside M 95%	Buchu leaves extract	Peppermint oil terpeneless	Spearmint oil terpeneless	(Z)-8-Pentadecenal	4,7-Decadienal	2-Methylthiophene	4-Methylidene-2-(2-methylprop-1-enyl)oxane	4-Isopropoxycinnamaldehyde
CATEGORY/FEMA NO.	4921	4922	4923	4924	4925	4926	4927	4928	4929	4930
<b>BAKED GOODS</b>	15/32.5	10/24	1/3	140/300	1055/1320	0.001/0.1	0.1/1	0.3/10	0/0	0/0
<b>BEVERAGES, NON-ALCOHOLIC</b>	15/32.5	10/24	0.8/0.8	39/99	110/140	0.00002/0.002	0.1/0.5	0.1/5	0.01/0.5	0.5/25
<b>BEVERAGES, ALCOHOLIC</b>	15/32.5	10/24	0.2/0.4	150/240	120/155	0.00002/0.002	0.1/0.5	0.1/5	0.01/0.5	0.5/25
<b>BREAKFAST CEREALS</b>	15/32.5	10/24	0/0	0/0	0/0	0.0001/0.005	0.1/0.5	0.3/10	0.1/5	0/0
<b>CHEESES</b>	0/0	0/0	0/0	0/0	0/0	0.0002/0.02	0.1/0.5	0.1/5	0/0	0/0
<b>CHEWING GUM</b>	200/325	10/240	0/0	8300/8300	8000/24000	0.0001/0.01	1/5	0.1/5	0.03/1.5	2/25
<b>CONDIMENTS AND RELISHES</b>	15/32.5	10/24	2/10	0/0	50/250	0.0001/0.01	0.5/1	0.1/5	0/0	0/0
<b>CONFECTIONS AND FROSTINGS</b>	15/32.5	10/24	0/0	650/650	0/0	0.0001/0.01	0.5/1	0.3/10	0.03/1.5	0/0
<b>EGG PRODUCTS</b>	0/0	0/0	0/0	0/0	0/0	0.0001/0.005	0.1/0.5	0.1/5	0/0	0/0
<b>FATS AND OILS</b>	0/0	0/0	0/0	0/0	0/0	0.001/0.1	0.5/1	0.1/5	0/0	0/0
<b>FISH PRODUCTS</b>	0/0	0/0	0/0	0/0	0/0	0.0001/0.005	0.1/0.5	0.1/5	0/0	0/0
<b>FROZEN DAIRY</b>	15/32.5	10/24	1.8/1.8	95/110	50/131	0.0001/0.005	0.1/0.5	0.1/5	0/0	0/0
<b>FRUIT ICES</b>	15/32.5	10/24	0/0	0/0	0/0	0.0001/0.005	0.1/0.5	0.1/5	0.03/1.5	0/0
<b>GELATINS AND PUDDINGS</b>	15/32.5	10/24	1/13	75/200	90/96	0.0001/0.005	0.1/0.5	0.1/5	0.03/1.5	0/0
<b>GRANULATED SUGAR</b>	0/0	0/0	0/0	0/0	0/0	0/0	0.5/1	0/0	0/0	0/0
<b>GRAVIES</b>	0/0	0/0	0/0	0/0	0/0	0.0001/0.005	0.1/1	0.1/5	0/0	0/0
<b>HARD CANDY</b>	15/32.5	10/24	0/0	1200/1200	5000/10000	0.0001/0.005	0.1/0.5	0.3/10	0.1/5	0/0
<b>IMITATION DAIRY</b>	15/32.5	10/24	0/0	0/0	0/0	0.0005/0.05	0.1/0.5	0.3/10	0/0	0/0
<b>INSTANT COFFEE AND TEA</b>	15/32.5	10/24	10/20	0/0	0/0	0.00002/0.002	0.1/0.5	0.1/5	0.01/0.5	0.1/15
<b>JAMS AND JELLIES</b>	15/32.5	10/24	0/0	0/0	97/1900	0.0001/0.005	0.1/0.5	0.1/5	0.03/1.5	0/0
<b>MEAT PRODUCTS</b>	0/0	0/0	0/0	6/8	0/0	0.0001/0.005	0.1/1	0.1/5	0/0	0/0
<b>MILK PRODUCTS</b>	15/32.5	10/24	0/0	0/0	0/0	0.0005/0.05	0.1/0.5	0.1/5	0/0	0.2/15
<b>NUT PRODUCTS</b>	15/32.5	10/24	0/0	0/0	0/0	0.0001/0.005	0.5/1	0.1/5	0/0	0/0
<b>OTHER GRAINS</b>	15/32.5	10/24	0/0	0/0	0/0	0.0001/0.005	0.1/0.5	0.1/5	0/0	0/0
<b>POULTRY</b>	0/0	0/0	0/0	0/0	0/0	0.0001/0.005	0.1/0.5	0.1/5	0/0	0/0
<b>PROCESSED FRUITS</b>	15/32.5	10/24	0/0	0/0	500/550	0/0	0.1/0.5	0/0	0/0	0/0
<b>PROCESSED VEGETABLES</b>	0/0	0/0	0/0	0/0	0/0	0/0	0.1/0.5	0/0	0/0	0/0
<b>RECONSTITUTED VEGETABLE PROTEIN</b>	0/0	0/0	0/0	0/0	0/0	0/0	0.1/0.5	0/0	0/0	0/0
<b>SEASONINGS AND FLAVORS</b>	15/32.5	10/24	0/0	0/0	66670/66670	0.0001/0.005	0.1/1	0.1/5	0/0	0/0
<b>SNACK FOODS</b>	15/32.5	10/24	0/0	0/0	0/0	0.0001/0.005	0.1/0.5	0.3/10	0/0	0.2/10
<b>SOFT CANDY</b>	15/32.5	10/24	1/3	320/1200	5000/10000	0.0001/0.01	0.1/0.5	0.3/10	0.03/1.5	0/0
<b>SOUPS</b>	15/32.5	10/24	0/0	0/0	0/0	0.00002/0.002	0.1/0.5	0.1/5	0/0	0/0
<b>SUGAR SUBSTITUTES</b>	0/0	0/0	0/0	0/0	0/0	0/0	0.5/1	0/0	0/0	1/25
<b>SWEET SAUCES</b>	15/32.5	10/24	0/0	0/0	40/90	0.0001/0.005	0.1/0.5	0.1/5	0/0	0/0

GRAS FLAVORING SUBSTANCES 29

**TABLE 2 CONTINUED - Average Usual Use Levels/Average Maximum Use Levels**

Average Usual Use Levels (ppm)/Average Maximum Use Levels (ppm) for new FEMA GRAS Flavoring Substances on which the FEMA Expert Panel based its judgments that the substances are generally recognized as safe (GRAS)

	Glucosylated steviol glycosides, 90%	<i>Chenomeles speciosa</i> leaf extract	<i>Erobotrya japonica</i> leaves extract	Sodium gluconate	3-Methylbutane-1,3-dithiol	Rebaudioside E ≥ 85%	Rebaudioside I 95%	5-Methyl 5-(1-ethoxyethoxy) tetradecanethioate	5-Methyl 5-(1-ethoxyethoxy) decanethioate	beta-Bisabolene ≥ 88%
CATEGORY/FEMA NO.	4931	4932	4933	4934	4935	4936	4937	4938	4939	4940
<b>BAKED GOODS</b>	100/100	200/400	20/100	2500/2500	0.1/1	30/45	20/30	0.2/1	0.2/2	10/50
<b>BEVERAGES, Non-ALCOHOLIC</b>	100/100	50/200	5/50	1500/2500	0.001/0.01	30/45	20/30	0.1/0.5	0.1/0.5	5/25
<b>BEVERAGES, ALCOHOLIC</b>	100/100	50/200	5/50	1500/2500	0.001/0.01	30/45	20/30	0/0	0/0	10/50
<b>BREAKFAST CEREALS</b>	100/100	200/400	20/100	2500/2500	0.1/1	30/45	20/30	0.05/0.5	0.05/0.5	5/25
<b>CHEESES</b>	100/100	100/200	5/50	2500/2500	0.01/0.1	0/0	0/0	0.05/0.5	0.05/0.5	0/0
<b>CHEWING GUM</b>	100/100	200/800	20/200	0/0	0.05/0.5	35/45	25/30	0/0	0.1/1	10/50
<b>CONDIMENTS AND RELISHES</b>	100/100	50/200	5/50	1500/2500	0.002/0.02	30/45	20/30	0/0	0/0	0/0
<b>CONFECTIONS AND FROSTINGS</b>	100/100	200/400	20/200	1500/2500	0.05/0.5	30/45	20/30	0.1/0.5	0.1/0.5	10/50
<b>EGG PRODUCTS</b>	0/0	100/400	5/50	1500/2500	0.005/0.05	0/0	0/0	0.1/0.5	0.1/0.5	0/0
<b>FATS AND OILS</b>	100/100	100/400	10/100	0/0	0.01/0.1	0/0	0/0	0.1/0.5	0.1/2	5/25
<b>FISH PRODUCTS</b>	0/0	100/400	10/100	1500/2500	0.001/0.1	0/0	0/0	0/0	0/0	0/0
<b>FROZEN DAIRY</b>	100/100	100/400	10/100	1500/2500	0.005/0.05	30/45	20/30	0.01/0.1	0.1/1	7/35
<b>FRUIT ICES</b>	100/100	50/200	5/50	1500/2500	0.001/0.01	30/45	20/30	0/0	0/0	10/50
<b>GELATINS AND PUDDINGS</b>	100/100	100/400	10/100	0/0	0.005/0.05	30/45	20/30	0.01/0.05	0.01/0.1	5/25
<b>GRANULATED SUGAR</b>	0/0	0/0	5/50	0/0	0/0	0/0	0/0	0/0	0/0	0/0
<b>GRAVIES</b>	100/100	100/400	20/100	2500/2500	0.01/0.1	0/0	0/0	0.1/1	0.1/1	0/0
<b>HARD CANDY</b>	100/100	200/400	20/200	0/0	0.1/1	30/45	20/30	0.01/0.05	0.01/0.05	10/50
<b>IMITATION DAIRY</b>	100/100	100/400	10/100	1500/2500	0.01/0.1	30/45	20/30	0.1/1	0.1/1	0/0
<b>INSTANT COFFEE AND TEA</b>	100/100	50/200	5/50	1500/2500	0.01/0.1	30/45	20/30	0.2/2	0.2/2	0/0
<b>JAMS AND JELLIES</b>	100/100	100/400	5/50	1000/2500	0.002/0.02	30/45	20/30	0/0	0.05/0.2	5/25
<b>MEAT PRODUCTS</b>	0/0	100/400	20/100	2500/2500	0.01/0.1	0/0	0/0	0.1/1	0.1/1	0/0
<b>MILK PRODUCTS</b>	100/100	50/200	5/50	0/0	0.005/0.05	30/45	20/30	0.1/1	0.1/1	0/0
<b>NUT PRODUCTS</b>	100/100	200/400	10/100	2500/2500	0.002/0.02	30/45	20/30	0/0	0/0	0/0
<b>OTHER GRAINS</b>	100/100	100/400	10/100	0/0	0.01/0.1	30/45	20/30	0.01/0.1	0.01/0.1	0/0
<b>POULTRY</b>	0/0	100/400	20/100	2500/2500	0.02/0.02	0/0	0/0	0.1/1	0.1/1	0/0
<b>PROCESSED FRUITS</b>	100/100	50/200	5/50	1500/2500	0.001/0.01	30/45	20/30	0/0	0/0	7/35
<b>PROCESSED VEGETABLES</b>	100/100	50/200	5/50	2500/2500	0.002/0.02	0/0	0/0	0/0	0/0	0/0
<b>RECONSTITUTED VEGETABLE PROTEIN</b>	100/100	50/200	5/50	0/0	0.002/0.02	0/0	0/0	0.03/0.1	0.03/0.1	0/0
<b>SEASONINGS AND FLAVORS</b>	100/100	100/400	10/200	2500/2500	0/0	30/45	20/30	0/0	0/0	0/0
<b>SNACK FOODS</b>	100/100	100/500	10/200	2500/2500	0.05/0.5	30/45	20/30	0.2/2	0.2/2	0/0
<b>SOFT CANDY</b>	100/100	200/400	20/200	0/0	0.002/0.02	30/45	20/30	0.01/0.05	0.01/0.05	10/50
<b>SOUPS</b>	100/100	100/400	5/100	2500/2500	0.05/0.5	30/45	20/30	0.1/1	0.1/1	0/0
<b>SUGAR SUBSTITUTES</b>	0/0	0/0	5/50	1500/2500	0.001/0.01	0/0	20/30	0/0	0/0	0/0
<b>SWEET SAUCES</b>	100/100	50/200	5/100	1500/2500	0.005/0.05	30/45	20/30	0/0	0.01/0.1	5/25

**TABLE 2 CONTINUED - Average Usual Use Levels/Average Maximum Use Levels**

Average Usual Use Levels (ppm)/Average Maximum Use Levels (ppm) for new FEMA GRAS Flavoring Substances on which the FEMA Expert Panel based its judgments that the substances are generally recognized as safe (GRAS)

	Nootkatone complex	Modified guaiac wood extract
CATEGORY/FEMA NO.	4941	4942
BAKED GOODS	0/0	0.1/2
BEVERAGES, NON-ALCOHOLIC	10/50	0.05/0.2
BEVERAGES, ALCOHOLIC	10/50	0.1/2
BREAKFAST CEREALS	0/0	0.1/2
CHEESES	0/0	0/0
CHEWING GUM	10/50	1/5
CONDIMENTS AND RELISHES	0/0	0/0
CONFECTIONS AND FROSTINGS	10/50	0/0
EGG PRODUCTS	0/0	0/0
FATS AND OILS	0/0	0.1/1.5
FISH PRODUCTS	0/0	0.1/0.5
FROZEN DAIRY	0/0	0.1/1.5
FRUIT ICES	0/0	0.1/1
GELATINS AND PUDDINGS	0/0	0.1/0.5
GRANULATED SUGAR	0/0	0/0
GRAVIES	0/0	0.1/1.5
HARD CANDY	0/0	0.2/1
IMITATION DAIRY	0/0	0.1/0.8
INSTANT COFFEE AND TEA	0/0	0.05/0.5
JAMS AND JELLIES	0/0	0.1/1
MEAT PRODUCTS	0/0	0.1/0.5
MILK PRODUCTS	0/0	0.1/1
NUT PRODUCTS	0/0	0/0
OTHER GRAINS	0/0	0/0
POULTRY	0/0	0.1/0.5
PROCESSED FRUITS	0/0	0.05/0.5
PROCESSED VEGETABLES	0/0	0.05/0.2
RECONSTITUTED VEGETABLE PROTEIN	0/0	0.02/0.1
SEASONINGS AND FLAVORS	0/0	0.5/2
SNACK FOODS	0/0	0.2/1
SOFT CANDY	0/0	0.1/0.8
SOUPS	0/0	0.1/0.5
SUGAR SUBSTITUTES	0/0	0/0
SWEET SAUCES	0/0	0.1/0.5

**TABLE 3 – Updated Average Usual Use Levels/Average Maximum Use Levels**

Average Usual Use Levels (ppm)/Average Maximum Use Levels (ppm) for flavoring substances previously recognized as FEMA GRAS

<sup>a</sup> represents a change from previous FEMA GRAS publications

	Acetal	Acetic acid	Isoamyl alcohol	Anisyl propanoate	Isobutyl alcohol	Butyric acid	Isobutyric acid	Caffeine	Citric acid	dl-Citronellol
FEMA NO.	2002	2006	2057	2102	2179	2221	2222	2224	2306	2309
GRAS PUBLICATION	3	25	3	3	25	25	25	3	25	3
CATEGORY										
<b>BAKED GOODS</b>	65/120	0.1/38	17/27	17/30	20/31	44/106	20/41	0/0	2/3	6/20
<b>BEVERAGES, NON-ALCOHOLIC</b>	5/11	0.06/39	4/17	5/7	8/17	9/16	2/4	120/150 <sup>a</sup>	2/3	1/4
<b>BEVERAGES, ALCOHOLIC</b>	109 <sup>a</sup> /154 <sup>a</sup>	500 <sup>a</sup> /2000 <sup>a</sup>	500 <sup>a</sup> /4500 <sup>a</sup>	3/5	518 <sup>a</sup> /6500 <sup>a</sup>	4 <sup>a</sup> /30 <sup>a</sup>	2 <sup>a</sup> /10 <sup>a</sup>	0/0	800 <sup>a</sup> /20000 <sup>a</sup>	1/4
<b>BREAKFAST CEREALS</b>	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0.1/0.1	0/0
<b>CHEESES</b>	0/0	0/0	0/0	0/0	1/1	0/0	0/0	0/0	0.4/0.9	0/0
<b>CHEWING GUM</b>	155/155	400/5000	594/594	0/0	50/500	60/270	25/110	0/0	10000/25400	8/9
<b>CONDIMENTS AND RELISHES</b>	0/0	136/5900	0/0	0.45 <sup>a</sup> /0.68 <sup>a</sup>	0/0	125/200	0/0	0/0	0.4/0.8	0.3 <sup>a</sup> /0.45 <sup>a</sup>
<b>CONFECTIONS AND FROSTINGS</b>	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0.3/1	0/0
<b>EGG PRODUCTS</b>	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0.6/0.6	0/0
<b>FATS AND OILS</b>	2/3	15/31	0/0	0.45 <sup>a</sup> /0.68 <sup>a</sup>	0/0	9/26	2/30	0/0	0.5/0.8	0.3 <sup>a</sup> /0.45 <sup>a</sup>
<b>FISH PRODUCTS</b>	0/0	0/0	0/0	0.45 <sup>a</sup> /0.68 <sup>a</sup>	0/0	0/0	0/0	0/0	0.3/0.4	0.3 <sup>a</sup> /0.45 <sup>a</sup>
<b>FROZEN DAIRY</b>	36/73	0.03/32	5/10	6/11	19/19	9/14	6/12	0/0	1/3	1/40
<b>FRUIT ICES</b>	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	1/2	0/0
<b>GELATINS AND PUDDINGS</b>	36/67	0.04/15	12/46	5/9	24/35	13/45	11/20	0/0	174/210	2/6
<b>GRANULATED SUGAR</b>	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0
<b>GRAVIES</b>	0/0	2/12	0/0	0.45 <sup>a</sup> /0.68 <sup>a</sup>	0/0	0/0	0/0	0/0	1/2	0.3 <sup>a</sup> /0.45 <sup>a</sup>
<b>HARD CANDY</b>	4/39	0.2/52	158/168	0.6/16	30/30	39/103	8/41	0/0	950/1000	2/2
<b>IMITATION DAIRY</b>	0/0	0.1/0.1	0/0	0/0	0/0	101/183	0/0	0/0	2/2	0/0
<b>INSTANT COFFEE AND TEA</b>	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	5/5	0/0
<b>JAMS AND JELLIES</b>	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	2/6	0/0
<b>MEAT PRODUCTS</b>	0/0	8/16	0/0	0.45 <sup>a</sup> /0.68 <sup>a</sup>	0/0	7/7	0/0	0/0	0.8/0.9	0.3 <sup>a</sup> /0.45 <sup>a</sup>
<b>MILK PRODUCTS</b>	0/0	0.8/1	0/0	0/0	0/0	15/15	100/200	0/0	0.8/1	0/0
<b>NUT PRODUCTS</b>	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0.3 <sup>a</sup> /0.45 <sup>a</sup>
<b>OTHER GRAINS</b>	0/0	0/0	0/0	0.45 <sup>a</sup> /0.68 <sup>a</sup>	0/0	0/0	0/0	0/0	0.4/0.4	0.3 <sup>a</sup> /0.45 <sup>a</sup>
<b>POULTRY</b>	0/0	0/0	0/0	0.45 <sup>a</sup> /0.68 <sup>a</sup>	0/0	0/0	0/0	0/0	1/1	0.3 <sup>a</sup> /0.45 <sup>a</sup>
<b>PROCESSED FRUITS</b>	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	13/16	0/0
<b>PROCESSED VEGETABLES</b>	0/0	0/0	0/0	0.45 <sup>a</sup> /0.68 <sup>a</sup>	0/0	0/0	0/0	0/0	0.5/1	0.3 <sup>a</sup> /0.45 <sup>a</sup>
<b>RECONSTITUTED VEGETABLE PROTEIN</b>	0/0	0/0	0/0	0.45 <sup>a</sup> /0.68 <sup>a</sup>	0/0	0/0	0/0	0/0	33/33	0.3 <sup>a</sup> /0.45 <sup>a</sup>
<b>SEASONINGS AND FLAVORS</b>	0/0	0/0	0/0	0.45 <sup>a</sup> /0.68 <sup>a</sup>	0/0	0/0	0/0	0/0	0/0	0.3 <sup>a</sup> /0.45 <sup>a</sup>
<b>SNACK FOODS</b>	0/0	2/2	0/0	0.45 <sup>a</sup> /0.68 <sup>a</sup>	0/0	24/48	0/0	0/0	0.4/1	0.3 <sup>a</sup> /0.45 <sup>a</sup>
<b>SOFT CANDY</b>	33/56	0.05/0.07	8/14	12/23	25/34	32/42	21/47	0/0	2/14	142/181
<b>SOUPS</b>	0/0	0/0	0/0	0.45 <sup>a</sup> /0.68 <sup>a</sup>	0/0	0/0	0/0	0/0	0.2/0.2	0.3 <sup>a</sup> /0.45 <sup>a</sup>
<b>SUGAR SUBSTITUTES</b>	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0
<b>SWEET SAUCES</b>	0/0	0.1/0.1	0/0	0/0	0/0	9/9	62/124	0/0	3/3	0/0

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**TABLE 3 CONTINUED - Updated Average Usual Use Levels/Average Maximum Use Levels**

Average Usual Use Levels (ppm)/Average Maximum Use Levels (ppm) for flavoring substances previously recognized as FEMA GRAS

<sup>a</sup> represents a change from previous FEMA GRAS publications

	<i>delta</i> -Decalactone	Decanoic acid	Dihydrocoumarin	Ethyl acetate	Ethyl palmitate	Eugenol	Glycerol	Guaiacol	Hexanoic acid
<b>FEMA NO.</b>	<b>2361</b>	<b>2364</b>	<b>2381</b>	<b>2414</b>	<b>2451</b>	<b>2467</b>	<b>2525</b>	<b>2532</b>	<b>2559</b>
<b>GRAS PUBLICATION</b>	<b>25</b>	<b>3</b>	<b>25</b>	<b>3</b>	<b>25</b>	<b>3</b>	<b>3</b>	<b>3</b>	<b>25</b>
<b>CATEGORY</b>									
<b>BAKED GOODS</b>	14/26	10/12	141/165	154/211	20/20	15/33	18/1300	2/3	19/65
<b>BEVERAGES, NON-ALCOHOLIC</b>	5/14	1/10	25/28	42/67	0/0	1/2	0.7/570	0.8/1	2/3
<b>BEVERAGES, ALCOHOLIC</b>	15 <sup>a</sup> /20 <sup>a</sup>	3 <sup>a</sup> /15 <sup>a</sup>	0.3 <sup>a</sup> /2 <sup>a</sup>	100 <sup>a</sup> /200 <sup>a</sup>	0.3 <sup>a</sup> /5 <sup>a</sup>	2 <sup>a</sup> /40 <sup>a</sup>	20000 <sup>a</sup> /20000 <sup>a</sup>	1/15 <sup>a</sup>	3 <sup>a</sup> /50 <sup>a</sup>
<b>BREAKFAST CEREALS</b>	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0
<b>CHEESES</b>	0/0	11/11	0/0	0/0	0/0	0/0	0/0	0.1/0.1	2/5
<b>CHEWING GUM</b>	15/100	5 <sup>a</sup> /25 <sup>a</sup>	20/250	1190/10000 <sup>a</sup>	0.1/0.1	400 <sup>a</sup> /2320 <sup>a</sup>	17/6000	0.01/0.01	100/1000
<b>CONDIMENTS AND RELISHES</b>	0/0	0/0	10/15	0/0	0/0	50/100	0/0	0/0	448/510
<b>CONFECTIONS AND FROSTINGS</b>	0.5/5	0/0	0/0	0/0	0/0	625/750	70/23000	0/0	0/0
<b>EGG PRODUCTS</b>	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0
<b>FATS AND OILS</b>	9/20	4/140	0/0	0/0	0/0	0/0	0.2/0.2	0/0	36/36
<b>FISH PRODUCTS</b>	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0
<b>FROZEN DAIRY</b>	19/37	2/7	95/104	66/110	20/20	2/4	0.3/500	1/2	10/24
<b>FRUIT ICES</b>	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0
<b>GELATINS AND PUDDINGS</b>	15/30	0.5/3	116/132	73/200	0/0	2/3	26/360	0.9/2	2/6
<b>GRANULATED SUGAR</b>	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0
<b>GRAVIES</b>	4/8	0.3/0.6	0/0	20/40	0/0	0/0	0.2/0.2	0/0	2/4
<b>HARD CANDY</b>	0.3/5	5/5	8/44	149/7500 <sup>a</sup>	40/40	700 <sup>a</sup> /700 <sup>a</sup>	22/980	1/1	3/28
<b>IMITATION DAIRY</b>	0/0	7/14	0/0	0/0	0/0	0/0	0/0	0/0	5/10
<b>INSTANT COFFEE AND TEA</b>	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0
<b>JAMS AND JELLIES</b>	0/0	0/0	0/0	0/0	0/0	0/0	42/54	0/0	0/0
<b>MEAT PRODUCTS</b>	0/0	2/2	0/0	0.1/0.1	0/0	51/2000	1/40	3/6	6/26
<b>MILK PRODUCTS</b>	0/0	0/0	0/0	0/0	0/0	0/0	84/84	0/0	0/0
<b>NUT PRODUCTS</b>	0/0	0/0	0/0	0/0	3/5	0/0	0/0	0/0	0/0
<b>OTHER GRAINS</b>	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0
<b>POULTRY</b>	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0
<b>PROCESSED FRUITS</b>	0/0	0/0	0/0	8/15	0/0	0/0	0.02/0.07	0/0	0/0
<b>PROCESSED VEGETABLES</b>	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	150/176
<b>RECONSTITUTED VEGETABLE PROTEIN</b>	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0
<b>SEASONINGS AND FLAVORS</b>	0/0	0/0	0/0	0/0	0/0	0/0	400000/400000	0/0	0/0
<b>SNACK FOODS</b>	0/0	2/4	0/0	0/0	0/0	0/0	22/24	0/0	10/20
<b>SOFT CANDY</b>	13/26	2/6	111/131	113/5000 <sup>a</sup>	0/0	10/15	2/4	0.8/2	5/9
<b>SOUPS</b>	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0
<b>SUGAR SUBSTITUTES</b>	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0
<b>SWEET SAUCES</b>	0.1/0.1	0/0	0/0	0/0	0/0	0/0	74/74	0/0	0/0

**TABLE 3 CONTINUED - Updated Average Usual Use Levels/Average Maximum Use Levels**

Average Usual Use Levels (ppm)/Average Maximum Use Levels (ppm) for flavoring substances previously recognized as FEMA GRAS

<sup>a</sup> represents a change from previous FEMA GRAS publications

	4-(p-Hydroxyphenyl)-2-butanone	Lactic acid	Lauric acid	Lauryl alcohol	Limanol	L-Malic acid	Maltol	4-Methyl-2-methoxyphenol	2-Methoxy-4-vinylphenol	3-Methylbutylaldehyde
FEMA NO.	2588	2611	2614	2617	2635	2655	2656	2671	2675	2692
GRAS PUBLICATION	3	25	25	3	3	25	3	25	25	25
CATEGORY										
<b>BAKED GOODS</b>	13/54	2/89	86/86	9/14	12/18	0.6/2	107/320	4/11	20/24	21/29
<b>BEVERAGES, NON-ALCOHOLIC</b>	3/16	0.02/34	11/15	2/3	4/7	90/380	78/182	10/21	2/3	2/4
<b>BEVERAGES, ALCOHOLIC</b>	250 <sup>a</sup> /300 <sup>a</sup>	3000 <sup>a</sup> /11000 <sup>a</sup>	0.6 <sup>a</sup> /2 <sup>a</sup>	1 <sup>a</sup> /10 <sup>a</sup>	10 <sup>a</sup> /50 <sup>a</sup>	1200 <sup>a</sup> /10000 <sup>a</sup>	70 <sup>a</sup> /350 <sup>a</sup>	0.6 <sup>a</sup> /10 <sup>a</sup>	20 <sup>a</sup> /40 <sup>a</sup>	0.4 <sup>a</sup> /10 <sup>a</sup>
<b>BREAKFAST CEREALS</b>	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0
<b>CHEESES</b>	0/0	19/37	53/53	0/0	0/0	0/0	0/0	0/0	0/0	0/0
<b>CHEWING GUM</b>	71/320	5000 <sup>a</sup> /5000 <sup>a</sup>	2/5	24/27	41/200 <sup>a</sup>	6000/25000	53/192	15/25	2/5	760/5000
<b>CONDIMENTS AND RELISHES</b>	0/0	1200/24000	0/0	0/0	5/40	0/0	0/0	0/0	0/0	0/0
<b>CONFECTIONS AND FROSTINGS</b>	0/0	0.3/300	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0
<b>EGG PRODUCTS</b>	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0
<b>FATS AND OILS</b>	0/0	1/2	6/315	0/0	0/0	0/0	0.4/18	0/0	0/0	0/0
<b>FISH PRODUCTS</b>	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0
<b>FROZEN DAIRY</b>	9/34	0.03/66	18/21	4/7	6/10	25/390	121/287	1/2	4/11	8/12
<b>FRUIT ICES</b>	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0
<b>GELATINS AND PUDDINGS</b>	14/50	14/25	18/25	4/7	7/10	0/0	112/244	7/18	4/6	8/11
<b>GRANULATED SUGAR</b>	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0
<b>GRAVIES</b>	0/0	2/2	0/0	0/0	0/0	0/0	0/0	0/0	3/6	0/0
<b>HARD CANDY</b>	17/44	20000 <sup>a</sup> /20000 <sup>a</sup>	2/2	6/6	3/400 <sup>a</sup>	420/420	6/31	0.8/0.8	1/8	3/3
<b>IMITATION DAIRY</b>	0/0	0.8/1	7/14	0/0	0/0	0/0	0/0	0/0	0/0	0/0
<b>INSTANT COFFEE AND TEA</b>	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0
<b>JAMS AND JELLIES</b>	0/0	0/0	0/0	0/0	0/0	0/0	15/15	0/0	0/0	0/0
<b>MEAT PRODUCTS</b>	0/0	4/4	0/0	0.03/0.03	19/46	0/0	0.1/0.1	12/35	3/7	0.1/0.5
<b>MILK PRODUCTS</b>	0/0	0.9/1	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0
<b>NUT PRODUCTS</b>	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0
<b>OTHER GRAINS</b>	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0
<b>POULTRY</b>	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0
<b>PROCESSED FRUITS</b>	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0
<b>PROCESSED VEGETABLES</b>	0/0	0.02/0.03	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0
<b>RECONSTITUTED VEGETABLE PROTEIN</b>	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0
<b>SEASONINGS AND FLAVORS</b>	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0
<b>SNACK FOODS</b>	0/0	0.3/0.4	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0
<b>SOFT CANDY</b>	13/36	14000 <sup>a</sup> /14000 <sup>a</sup>	25/27	5/8	6/10	25/420	114/267	4/10	8/9	12/17
<b>SOUPS</b>	0/0	0.1/0.1	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0
<b>SUGAR SUBSTITUTES</b>	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0
<b>SWEET SAUCES</b>	0.9/1	0.5/0.5	0/0	7/7	0/0	0/0	0.3/0.4	0/0	0/0	0/0

GRAS FLAVORING SUBSTANCES 29

**TABLE 3 CONTINUED - Updated Average Usual Use Levels/Average Maximum Use Levels**

Average Usual Use Levels (ppm)/Average Maximum Use Levels (ppm) for flavoring substances previously recognized as FEMA GRAS

<sup>a</sup> represents a change from previous FEMA GRAS publications

	5-Methylfurfural	Myristic acid	Nerol	Octanoic acid	Palmitic acid	2,3-Pentanedione	Phenethyl alcohol	Phosphoric acid	alpha-Pinene
<b>FEMA NO.</b>	<b>2702</b>	<b>2764</b>	<b>2770</b>	<b>2799</b>	<b>2832</b>	<b>2841</b>	<b>2858</b>	<b>2900</b>	<b>2902</b>
<b>GRAS PUBLICATION</b>	<b>25</b>	<b>25</b>	<b>3</b>	<b>3</b>	<b>25</b>	<b>3</b>	<b>3</b>	<b>3</b>	<b>25</b>
<b>CATEGORY</b>									
<b>BAKED GOODS</b>	1/2	3/5	15/25	0.01/18	3/3	5/11	27/33	0.3/1500	35/160
<b>BEVERAGES, NON-ALCOHOLIC</b>	1/2	2/5	3/5	3/3	0/0	1/2	13/18	0.5/510	16/54
<b>BEVERAGES, ALCOHOLIC</b>	0.02 <sup>a</sup> /2 <sup>a</sup>	0.002 <sup>a</sup> /4 <sup>a</sup>	1 <sup>a</sup> /2 <sup>a</sup>	5 <sup>a</sup> /10 <sup>a</sup>	0.001 <sup>a</sup> /3 <sup>a</sup>	3 <sup>a</sup> /10 <sup>a</sup>	250 <sup>a</sup> /250 <sup>a</sup>	100 <sup>a</sup> /2000 <sup>a</sup>	10 <sup>a</sup> /100 <sup>a</sup>
<b>BREAKFAST CEREALS</b>	0/0	0/0	0/0	0/0	0/0	12/12	0/0	0.08/0.08	0/0
<b>CHEESES</b>	0/0	2/2	0/0	0/0	0/0	0/0	0/0	3/5	0/0
<b>CHEWING GUM</b>	20/500	6/10	27/300 <sup>a</sup>	15 <sup>a</sup> /30 <sup>a</sup>	1/1	0.04/0.04	25/80	0/0	175/1300
<b>CONDIMENTS AND RELISHES</b>	0/0	0/0	0/0	12/12	1/1	0/0	0/0	0/0	47/150
<b>CONFECTIONS AND FROSTINGS</b>	0/0	0/0	0/0	0/0	0/0	0.3/0.3	0/0	0.7/0.8	0/0
<b>EGG PRODUCTS</b>	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0
<b>FATS AND OILS</b>	0/0	0/0	0/0	0.03/0.03	0/0	0/0	0.05/0.1	0/0	0/0
<b>FISH PRODUCTS</b>	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0
<b>FROZEN DAIRY</b>	1/3	3/10	14/21	2/2	0/0	4/10	19/23	0.3/660	13/64
<b>FRUIT ICES</b>	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0
<b>GELATINS AND PUDDINGS</b>	1/2	1/2	5/8	0.01/0.01	0/0	4/8	6/10	0.4/0.5	6/12
<b>GRANULATED SUGAR</b>	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0
<b>GRAVIES</b>	2/4	0.3/0.6	0/0	0/0	0/0	0.2/0.4	0/0	0/0	0/0
<b>HARD CANDY</b>	0.03/0.1	4/4	1/16	13/13	0/0	40/58	2/12	5000/5000	253/265
<b>IMITATION DAIRY</b>	0/0	0/0	0/0	0.01/0.01	0/0	0/0	0/0	1/2	0/0
<b>INSTANT COFFEE AND TEA</b>	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0.3/0.4	0/0
<b>JAMS AND JELLIES</b>	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0.05/0.05	0/0
<b>MEAT PRODUCTS</b>	5/10	1/2	0/0	0.01/0.01	4/9	4/6	0/0	0.02/0.02	10/20
<b>MILK PRODUCTS</b>	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0
<b>NUT PRODUCTS</b>	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0
<b>OTHER GRAINS</b>	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0.04/0.04	0/0
<b>POULTRY</b>	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0
<b>PROCESSED FRUITS</b>	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0
<b>PROCESSED VEGETABLES</b>	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0.02/0.02	0/0
<b>RECONSTITUTED VEGETABLE PROTEIN</b>	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0.02/1	0/0
<b>SEASONINGS AND FLAVORS</b>	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0
<b>SNACK FOODS</b>	0.05/0.1	0/0	0/0	0.04/0.08	0/0	0/0	0/0	0/0	0/0
<b>SOFT CANDY</b>	1/2	2/3	0/0	13 <sup>a</sup> /13 <sup>a</sup>	0/0	4/11	26/30	0.1/0.3	31/63
<b>SOUPS</b>	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0
<b>SUGAR SUBSTITUTES</b>	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0
<b>SWEET SAUCES</b>	0/0	0/0	0/0	0/0	0/0	0.3/0.6	0/0	0.2/0.2	0/0

**TABLE 3 CONTINUED - Updated Average Usual Use Levels/Average Maximum Use Levels**

Average Usual Use Levels (ppm)/Average Maximum Use Levels (ppm) for flavoring substances previously recognized as FEMA GRAS

<sup>a</sup> represents a change from previous FEMA GRAS publications

	<i>beta</i> -Pinene	Piperine	Potassium acetate	Propionic acid	Tartaric acid ( <i>D</i> -, <i>L</i> -, <i>DL</i> -, <i>Meso</i> -)	<i>alpha</i> -Terpineol	Vanillin	2,6-Dimethoxyphenol	4-Hydroxy-2,5-dimethyl-3(2H)-furanone	2,4-Noradienal
FEMA NO.	2903	2909	2920	2924	3044	3045	3107	3137	3174	3212
GRAS PUBLICATION	3	3	3	25	25	3	3	4	25	25
CATEGORY										
<b>BAKED GOODS</b>	48/600	1.37 <sup>a</sup> /2.1 <sup>a</sup>	0/0	200 <sup>a</sup> /500 <sup>a</sup>	0.9/1300	16/20	74/220	1.5/5	4/10	2/7
<b>BEVERAGES, NON-ALCOHOLIC</b>	11/21	0.6/0.7	0.3/2	50 <sup>a</sup> /500 <sup>a</sup>	1/960	3/5	40/97	2/5	5/80	0.9/4
<b>BEVERAGES, ALCOHOLIC</b>	10/50 <sup>a</sup>	0.9/1	350 <sup>a</sup> /3000 <sup>a</sup>	0.01/0.01	5000 <sup>a</sup> /10000 <sup>a</sup>	1.5 <sup>a</sup> /10 <sup>a</sup>	30/450 <sup>a</sup>	0.05 <sup>a</sup> /10 <sup>a</sup>	43 <sup>a</sup> /180 <sup>a</sup>	0.01 <sup>a</sup> /2 <sup>a</sup>
<b>BREAKFAST CEREALS</b>	0/0	0/0	0/0	50 <sup>a</sup> /500 <sup>a</sup>	0/0	0/0	353/353	0/0	0/0	0.2/0.2
<b>CHEESES</b>	0/0	0/0	0/0	100 <sup>a</sup> /600 <sup>a</sup>	0/0	0/0	0/0	0/0	0/0	0/0
<b>CHEWING GUM</b>	17/23	0/0	0/0	100/300	500/5000	13/1000 <sup>a</sup>	82/445	0/0	100/1000	5/10
<b>CONDIMENTS AND RELISHES</b>	20/40	1.5 <sup>a</sup> /2.25 <sup>a</sup>	0/0	100 <sup>a</sup> /500 <sup>a</sup>	2/10000	26/45	0/0	0/0	0/0	1/2
<b>CONFECTIONS AND FROSTINGS</b>	0/0	0/0	0/0	0/0	0/0	0/0	597/970	0/0	0/0	0/0
<b>EGG PRODUCTS</b>	0/0	0/0	0/0	50 <sup>a</sup> /500 <sup>a</sup>	0/0	0/0	0/0	0/0	0/0	0/0
<b>FATS AND OILS</b>	0/0	0/0	0/0	50 <sup>a</sup> /500 <sup>a</sup>	0/0	0/0	96/100	0/0	0.1/0.5	0/0
<b>FISH PRODUCTS</b>	0/0	1.5 <sup>a</sup> /2.25 <sup>a</sup>	0/0	50 <sup>a</sup> /500 <sup>a</sup>	0/0	0/0	0/0	2/2	0/0	0/0
<b>FROZEN DAIRY</b>	20/64	1/1	0/0	50 <sup>a</sup> /500 <sup>a</sup>	2/570	9/16	27/95	2/5	5/10	2/7
<b>FRUIT ICES</b>	0/0	0/0	0/0	0/0	3/5	0/0	0/0	0/0	0/0	0/0
<b>GELATINS AND PUDDINGS</b>	10/15	1/1	0/0	0/0	3/60	12/16	48/120	2/5	10/80	1/5
<b>GRANULATED SUGAR</b>	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0
<b>GRAVIES</b>	0/0	1.5 <sup>a</sup> /2.25 <sup>a</sup>	0/0	100 <sup>a</sup> /500 <sup>a</sup>	0.8/0.8	3/6	0/0	0/0	0/0	0.5/2
<b>HARD CANDY</b>	48/600	0/0	0/0	14/14	10/5400	11/17	26/200	0/0	10/10	0/0
<b>IMITATION DAIRY</b>	0/0	0/0	0/0	50 <sup>a</sup> /500 <sup>a</sup>	0/0	0/0	0/0	0/0	0/0	0/0
<b>INSTANT COFFEE AND TEA</b>	0/0	0/0	0/0	100 <sup>a</sup> /500 <sup>a</sup>	0/0	0/0	0/0	0/0	0/0	0/0
<b>JAMS AND JELLIES</b>	0/0	0/0	0/0	0/0	2/4	0/0	0/0	0/0	0.6/0.6	0/0
<b>MEAT PRODUCTS</b>	9/18	2/3	0/0	50 <sup>a</sup> /500 <sup>a</sup>	0.01/0.02	5/11	2/3	4/18	0/0	3/18
<b>MILK PRODUCTS</b>	0/0	0/0	0/0	50 <sup>a</sup> /500 <sup>a</sup>	0/0	0/0	221/314	0/0	0/0	0.2/0.2
<b>NUT PRODUCTS</b>	0/0	0.8 <sup>a</sup> /1.2 <sup>a</sup>	0/0	50 <sup>a</sup> /500 <sup>a</sup>	0/0	0/0	0/0	0/0	0/0	0/0
<b>OTHER GRAINS</b>	0/0	2.04 <sup>a</sup> /3.1 <sup>a</sup>	0/0	0/0	0.2/0.2	0/0	0/0	0/0	0/0	0/0
<b>POULTRY</b>	0/0	1.5 <sup>a</sup> /2.25 <sup>a</sup>	0/0	50 <sup>a</sup> /500 <sup>a</sup>	0/0	0/0	0/0	0/0	0/0	0/0
<b>PROCESSED FRUITS</b>	0/0	0/0	0/0	0/0	10/10	0/0	0/0	0/0	0/0	0/0
<b>PROCESSED VEGETABLES</b>	0/0	1.5 <sup>a</sup> /2.25 <sup>a</sup>	0/0	50 <sup>a</sup> /500 <sup>a</sup>	0/0	0/0	0/0	0/0	0/0	0/0
<b>RECONSTITUTED VEGETABLE PROTEIN</b>	0/0	0.8 <sup>a</sup> /1.2 <sup>a</sup>	0/0	50 <sup>a</sup> /500 <sup>a</sup>	0/0	0/0	0/0	0/0	0/0	0/0
<b>SEASONINGS AND FLAVORS</b>	0/0	2.04 <sup>a</sup> /3.1 <sup>a</sup>	0/0	50 <sup>a</sup> /500 <sup>a</sup>	0/0	0/0	0/0	0/0	1/10	0/0
<b>SNACK FOODS</b>	0/0	1.5 <sup>a</sup> /2.25 <sup>a</sup>	0/0	50 <sup>a</sup> /500 <sup>a</sup>	0/0	0/0	200/200	0/0	0/0	0/0
<b>SOFT CANDY</b>	20/74	1/1	0/0	0.01/0.01	10/10	13/500 <sup>a</sup>	247/408	2/5	20/60	2/8
<b>SOUPS</b>	0/0	1.5 <sup>a</sup> /2.25 <sup>a</sup>	0/0	50 <sup>a</sup> /500 <sup>a</sup>	2/2	0/0	0/0	0.1/0.8	0/0	0.2/0.2
<b>SUGAR SUBSTITUTES</b>	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0
<b>SWEET SAUCES</b>	0/0	0/0	0/0	0/0	3/4	0/0	358/1000 <sup>a</sup>	0/0	5/40	0/0





**TABLE 3 CONTINUED - Updated Average Usual Use Levels/Average Maximum Use Levels**

Average Usual Use Levels (ppm)/Average Maximum Use Levels (ppm) for flavoring substances previously recognized as FEMA GRAS

<sup>a</sup> represents a change from previous FEMA GRAS publications

	<i>m</i> -Cresol	4-Propyl-2-methoxyphenol	2-Ethyl-4-hydroxy-5-methyl-3(2H)-furanone	4,5-Dimethyl-3-hydroxy-2,5-dihydrofuran-2-one	Mono-menthyl succinate	Sodium diacetate	(+/-)-2-Methyl-1-butanol	Grape seed extract	1,6-Hexalactam	2-Acetyl-1-pyrroline
FEMA NO.	3530	3598	3623	3634	3810	3900	3998	4045	4235	4249
GRAS PUBLICATION	11	12	12	25	22	25	20	21	22	22
CATEGORY										
BAKED GOODS	0.5/1	0.015/0.15	1/2	10/20	300/900	40*/1000 <sup>a</sup>	2/9	0/0	5*/20 <sup>a</sup>	5*/50 <sup>a</sup>
BEVERAGES, NON-ALCOHOLIC	0/0	0.005/1.5	1/2	0/0	50/150	40*/500 <sup>a</sup>	0.1/2	100/200	5*/20 <sup>a</sup>	1*/10 <sup>a</sup>
BEVERAGES, ALCOHOLIC	0.3*/1 <sup>a</sup>	0.02*/1 <sup>a</sup>	0.4*/2 <sup>a</sup>	0.01*/5 <sup>a</sup>	50/150	0/0	400*/1100 <sup>a</sup>	1242*/2000 <sup>a</sup>	5*/20 <sup>a</sup>	1*/10 <sup>a</sup>
BREAKFAST CEREALS	0/0	0/0	0/0	0/0	0/0	40*/1000 <sup>a</sup>	0/0	0/0	5*/20 <sup>a</sup>	5*/50 <sup>a</sup>
CHEESES	0/0	0/0	0/0	0/0	0/0	100*/2000 <sup>a</sup>	0/0	100/200	5*/20 <sup>a</sup>	1*/10 <sup>a</sup>
CHEWING GUM	0/0	0.1/15	10/20	1/5	1250/4000	100*/2000 <sup>a</sup>	2/15	0/0	50*/200 <sup>a</sup>	0/0
CONDIMENTS AND RELISHES	0/0	0/0	0/0	2.5/10	0/0	40*/1000 <sup>a</sup>	0/0	100/200	5*/20 <sup>a</sup>	5*/100 <sup>a</sup>
CONFECTIONS AND FROSTINGS	0/0	0.01/1.5	0.25/0.5	0/0	200/600	40*/500 <sup>a</sup>	0.3/2	0/0	10*/40 <sup>a</sup>	5*/50 <sup>a</sup>
EGG PRODUCTS	0/0	0/0	0/0	0/0	0/0	100*/1000 <sup>a</sup>	0.3/2	0/0	5*/20 <sup>a</sup>	5*/100 <sup>a</sup>
FATS AND OILS	0/0	0/0	0/0	0.1/10	0/0	100*/1000 <sup>a</sup>	0.5/15	0/0	5*/20 <sup>a</sup>	1*/50 <sup>a</sup>
FISH PRODUCTS	0/0	0/0	0/0	2/10	0/0	100*/1000 <sup>a</sup>	0/0	0/0	5*/20 <sup>a</sup>	5*/100 <sup>a</sup>
FROZEN DAIRY	0/0	0/0	0/0	0/0	70/210	0/0	1.5/8	100/200	5*/20 <sup>a</sup>	1*/10 <sup>a</sup>
FRUIT ICES	0/0	0.007/0.07	0/0	0/0	70/210	0/0	0.8/5	0/0	5*/20 <sup>a</sup>	0.4/2
GELATINS AND PUDDINGS	0/0	0.01/0.1	1.5/3	0/0	150/450	0/0	0.2/2	100/200	5*/20 <sup>a</sup>	1*/10 <sup>a</sup>
GRANULATED SUGAR	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0
GRAVIES	0.3/0.5	0.5/1	0.5/1	2/10	0/0	100*/1000 <sup>a</sup>	0.3/2.5	0/0	5*/20 <sup>a</sup>	5*/100 <sup>a</sup>
HARD CANDY	0/0	0.025/0.25	1/2	0/0	300/1000	40*/1000 <sup>a</sup>	0.3/3	0/0	10*/40 <sup>a</sup>	2*/20 <sup>a</sup>
IMITATION DAIRY	0/0	0/0	0.25/1	0/0	0/0	0/0	0/0	100/200	5*/20 <sup>a</sup>	1*/10 <sup>a</sup>
INSTANT COFFEE AND TEA	0.3/0.5	0/0	0/0	0/0	0/0	0/0	0.1/1	100/200	5*/20 <sup>a</sup>	5*/50 <sup>a</sup>
JAMS AND JELLIES	0/0	0.01/1.5	0/0	0/0	150/450	0/0	0.4/4	0/0	10*/40 <sup>a</sup>	0/0
MEAT PRODUCTS	0.3/0.5	0/0	0.5/1	2/10	0/0	1500/2500	0/0	0/0	0.2/1.0	5*/100 <sup>a</sup>
MILK PRODUCTS	0/0	0/0	0.25/0.5	0/0	60/180	0/0	0.1/1	100/200	5*/20 <sup>a</sup>	1*/10 <sup>a</sup>
NUT PRODUCTS	0.3/0.5	0/0	0/0	0/0	0/0	15000/30000	0/0	0/0	5*/20 <sup>a</sup>	2*/20 <sup>a</sup>
OTHER GRAINS	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	5*/20 <sup>a</sup>	1*/10 <sup>a</sup>
POULTRY	0/0	0/0	0/0	2/10	0/0	1500/2500	0/0	0/0	5*/20 <sup>a</sup>	10*/100 <sup>a</sup>
PROCESSED FRUITS	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0.4/2	0.4/2
PROCESSED VEGETABLES	0/0	0/0	0/0	0/0	0/0	50*/500 <sup>a</sup>	0/0	0/0	0/0	0/0
RECONSTITUTED VEGETABLE PROTEIN	0/0	0.2/0.5	0/0	0/0	0/0	50*/500 <sup>a</sup>	0/0	0/0	5*/20 <sup>a</sup>	0/0
SEASONINGS AND FLAVORS	0.3/0.5	0/0	0/0	0.1/20	0/0	15000/30000	0.3/2.5	100/200	5*/20 <sup>a</sup>	5*/100 <sup>a</sup>
SNACK FOODS	0.3/0.5	1/1.5	0/0	0/0	300*/1000 <sup>a</sup>	15000/30000	0.4/4	0/0	5*/20 <sup>a</sup>	5*/100 <sup>a</sup>
SOFT CANDY	0/0	0.01/0.1	0/0	0/0	200/600	40*/2000 <sup>a</sup>	0.4/4	0/0	10*/40 <sup>a</sup>	5*/100 <sup>a</sup>
SOUPS	0.3/0.5	0.5/1	0/0	2/10	0/0	100*/1000 <sup>a</sup>	0.2/2	100/200	5*/20 <sup>a</sup>	1*/10 <sup>a</sup>
SUGAR SUBSTITUTES	0/0	0/0	0/0	0/0	0/0	0/0	0/0	100/200	0/0	1*/10 <sup>a</sup>
SWEET SAUCES	0/0	0/0	0/0	2.5/10	0/0	0/0	0/0	0/0	5*/20 <sup>a</sup>	0/0

GRAS FLAVORING SUBSTANCES 29

**TABLE 3 CONTINUED - Updated Average Usual Use Levels/Average Maximum Use Levels**

Average Usual Use Levels (ppm)/Average Maximum Use Levels (ppm) for flavoring substances previously recognized as FEMA GRAS

<sup>a</sup> represents a change from previous FEMA GRAS publications

	Ammonia (also includes ammonium chloride)	4-Amino-5,6-dimethylthieno[2,3-d]pyrimidin-2(1H)-one and 4-Amino-5,6-dimethylthieno[2,3-d]pyrimidin-2(1H)-one hydrochloride	3-[(4-Amino-2,2-dioxido-1H-2,1,3-benzothiazin-5-yl)oxy]-2,2-dimethyl-N-propylpropanamide	Glutamyl-valyl-glycine	N-[N-(3-(3-Hydroxy-4-methoxyphenyl)propyl)-L-alpha-aspartyl]-L-phenylalanine 1-methyl ester, monohydrate	(E)-3-Benzo[1,3]dioxol-5-yl-N,N-diphenyl-2-propanamide	Glucosylated Ribus saussurinus extract, 20-30% glucosylated rubusoside glycosides	Erythritol	(E)-3-(3,4-Dimethoxyphenyl)-N-[2-(4-methoxyphenyl)-ethyl]-acrylamide
FEMA NO.	4494	4669	4701	4709	4716	4788	4800	4819	4877
GRAS PUBLICATION	24	26	28	27	25	27	28	28	28
CATEGORY									
<b>BAKED GOODS</b>	282 <sup>a</sup> /423 <sup>a</sup>	5/10	10/22	15/30	20 <sup>a</sup> /20 <sup>a</sup>	0 <sup>a</sup> /0 <sup>a</sup>	150 <sup>a</sup> /400 <sup>a</sup>	0/0	0/0
<b>BEVERAGES, NON-ALCOHOLIC</b>	150 <sup>a</sup> /225 <sup>a</sup>	7.5/15	5 <sup>a</sup> /22 <sup>a</sup>	20/50	1.35/1.5	0.02/2	150/350	5000/12500	0/0
<b>BEVERAGES, ALCOHOLIC</b>	200 <sup>a</sup> /300 <sup>a</sup>	7.5/15	5/22	20 <sup>a</sup> /50 <sup>a</sup>	3 <sup>a</sup> /3 <sup>a</sup>	0.04/0.2	75/200	5000 <sup>a</sup> /12500 <sup>a</sup>	0/0
<b>BREAKFAST CEREALS</b>	0/0	10/20	10 <sup>a</sup> /22	80/160	0/0	0 <sup>a</sup> /0 <sup>a</sup>	150/400	12500 <sup>a</sup> /17500 <sup>a</sup>	15/30
<b>CHEESES</b>	0/0	0/0	0/0	20/50	0/0	0/0	0/0	0/0	20/50
<b>CHEWING GUM</b>	0/0	10/50	30/300	10/30	40/50	150 <sup>a</sup> /500 <sup>a</sup>	400/1000	0/0	0/0
<b>CONDIMENTS AND RELISHES</b>	420 <sup>a</sup> /630 <sup>a</sup>	10 <sup>a</sup> /20 <sup>a</sup>	5 <sup>a</sup> /22 <sup>a</sup>	30/60	3 <sup>a</sup> /3 <sup>a</sup>	0/0	300 <sup>a</sup> /400 <sup>a</sup>	0/0	25/50
<b>CONFECTIONS AND FROSTINGS</b>	500/1500	10/25	10/22	0/0	3.75 <sup>a</sup> /3.75 <sup>a</sup>	10 <sup>a</sup> /150 <sup>a</sup>	150/300	0/0	0/0
<b>EGG PRODUCTS</b>	1000/3000	0/0	0/0	15/45	0/0	0 <sup>a</sup> /0 <sup>a</sup>	0/0	0/0	0/0
<b>FATS AND OILS</b>	200 <sup>a</sup> /300 <sup>a</sup>	0/0	0/0	30/60	3 <sup>a</sup> /3 <sup>a</sup>	0 <sup>a</sup> /0 <sup>a</sup>	0/0	0/0	20/50
<b>FISH PRODUCTS</b>	1000/3000	0/0	5 <sup>a</sup> /22	15/45	0/0	0/0	0/0	0/0	15/50
<b>FROZEN DAIRY</b>	0/0	7.5/15	5/22	20/50	0.9/1	0 <sup>a</sup> /0 <sup>a</sup>	200/300	12500 <sup>a</sup> /17500 <sup>a</sup>	0/0
<b>FRUIT ICES</b>	0/0	7.5/15	5/22	20/50	0/0	0 <sup>a</sup> /0 <sup>a</sup>	100/300	5000/12500	0/0
<b>GELATINS AND PUDDINGS</b>	0/0	5/10	5/22	0/0	3.75 <sup>a</sup> /3.75 <sup>a</sup>	0 <sup>a</sup> /0 <sup>a</sup>	150/300	0/0	0/0
<b>GRANULATED SUGAR</b>	0/0	0/0	0/0	0/0	0/0	0 <sup>a</sup> /0 <sup>a</sup>	0/0	0/0	0/0
<b>GRAVIES</b>	420 <sup>a</sup> /630 <sup>a</sup>	0/0	0/0	30/60	0/0	0/0	100/150	0/0	20/50
<b>HARD CANDY</b>	1000/3000	10/25	15/75	0/0	0/0	40 <sup>a</sup> /400 <sup>a</sup>	400/1000	0/0	0/0
<b>IMITATION DAIRY</b>	0/0	7.5/15	5/22	20/50	0.75 <sup>a</sup> /0.75 <sup>a</sup>	0 <sup>a</sup> /0 <sup>a</sup>	0/0	12500 <sup>a</sup> /17500 <sup>a</sup>	20 <sup>a</sup> /25 <sup>a</sup>
<b>INSTANT COFFEE AND TEA</b>	0/0	7.5/15	5/22	10/30	0/0	0 <sup>a</sup> /0 <sup>a</sup>	150/350	5000/12500	0/0
<b>JAMS AND JELLIES</b>	0/0	10/25	10/22	0/0	0/0	0 <sup>a</sup> /0 <sup>a</sup>	150/300	0/0	0/0
<b>MEAT PRODUCTS</b>	1000/3000	0/0	5 <sup>a</sup> /22	15/45	0/0	0/0	100/150	0/0	20/50
<b>MILK PRODUCTS</b>	1000/3000	7.5/15	5 <sup>a</sup> /22	15/45	0.9/1	0 <sup>a</sup> /0 <sup>a</sup>	200/300	12500 <sup>a</sup> /17500 <sup>a</sup>	20 <sup>a</sup> /25 <sup>a</sup>
<b>NUT PRODUCTS</b>	420 <sup>a</sup> /630 <sup>a</sup>	0/0	0/0	0/0	0/0	0/0	200 <sup>a</sup> /400 <sup>a</sup>	12500 <sup>a</sup> /17500 <sup>a</sup>	0/0
<b>OTHER GRAINS</b>	420 <sup>a</sup> /630 <sup>a</sup>	0/0	0/0	0/0	0/0	0/0	200 <sup>a</sup> /400 <sup>a</sup>	12500 <sup>a</sup> /17500 <sup>a</sup>	0/0
<b>POULTRY</b>	420 <sup>a</sup> /630 <sup>a</sup>	0/0	5 <sup>a</sup> /22	15/45	0/0	0/0	0/0	0/0	15/50
<b>PROCESSED FRUITS</b>	0/0	0/0	0/0	0/0	0/0	0 <sup>a</sup> /0 <sup>a</sup>	0/0	5000/12500	0/0
<b>PROCESSED VEGETABLES</b>	325 <sup>a</sup> /488 <sup>a</sup>	0/0	0/0	15/45	0/0	0/0	0/0	0/0	0/0
<b>RECONSTITUTED VEGETABLE PROTEIN</b>	400 <sup>a</sup> /630 <sup>a</sup>	0/0	0/0	15/45	0/0	0/0	0/0	0/0	20/50
<b>SEASONINGS AND FLAVORS</b>	1000/3000	5/15	10/22	80/160	0/0	0/0	100/150	0/0	50/80
<b>SNACK FOODS</b>	420 <sup>a</sup> /630 <sup>a</sup>	5/15	0/0	80/160	0/0	0/0	0/0	0/0	50/80
<b>SOFT CANDY</b>	0/0	10/25	15/75	0/0	3.75 <sup>a</sup> /3.75 <sup>a</sup>	20 <sup>a</sup> /200 <sup>a</sup>	400/1000	0/0	0/0
<b>SOUPS</b>	420 <sup>a</sup> /630 <sup>a</sup>	0/0	0/0	20/50	0/0	0 <sup>a</sup> /0 <sup>a</sup>	100/150	0/0	20/50
<b>SUGAR SUBSTITUTES</b>	0/0	300/600	0/0	80/160	0/0	0 <sup>a</sup> /0 <sup>a</sup>	0/0	0/0	0/0
<b>SWEET SAUCES</b>	0/0	10/25	10/22	30/60	0/0	0/0	0/0	0/0	0/0