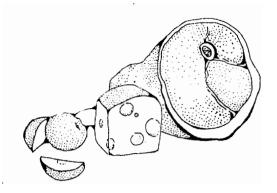


Third Cumulative Series

Consumption Ratio and Food Predominance of Flavoring Materials



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By Dr. Jan Stofberg, PFW, Division of Hercules Incorporated, Middletown, New York and Dr. Friedrich Grundschober, International Organization of the Flavour Industry, Geneva, Switzerland.

The Consumption Ratio was introduced in 1981. It was discussed in detail in papers in this journal and in Food and Chemicals Toxicology. The purpose of the Consumption Ratio is to put the need for safety evaluation of flavoring substances in proper perspective against the assumed safety of traditional food consumption.

The Consumption Ratio compares the average intake of added flavoring materials to the quantities consumed as unavoidable components of traditional foods. The Consumption Ratio is defined as the ratio between the quantity of a flavoring material consumed as an ingredient of basic and traditional foods, and the quantity of the same flavoring material consumed as a food additive by the same population over the same

period. The Consumption Ratio is a number between 0 (for flavoring materials not occurring in food) and infinity (for flavoring materials which occur in food and are not used as additives).

If the Consumption Ratio of a flavoring material is more than 1, this substance is consumed predominantly as an ingredient of traditional foods, and it can be called "Food Predominant." This has been indicated by a + in the tables. If the Consumption Ratio is over 10, then the use as added flavor adds on average less than 10% to the total intake of the substance, an almost insignificant increase. In this case the Food Predominance has been marked as ++.

For the calculation of the Consumption Ratio data are needed on:



- 1. the quantitative occurrence of individual flavoring materials in traditional foods
- the average per capita annual consumption of these foods
- the quantity of these flavoring materials used as added flavor, in most cases via the products of the flavor industry.

The data on quantitative occurrence of flavoring materials in foods used in this third cumulative series have largely been derived from five literature search reports by CIVO in the Netherlands.48 This literature search has been financially supported by the International Organization of the Flavour Industry, IOFI. Additional quantitative data were published by Dr. de Vincenzi et al., of the Instituto Superiore de Sanita, in two reports, of which one has been published in a journal.9 The Commission of the European Economic Community has provided financial support for this literature search. Data have also been contributed by the Subcommittee on Natural Occurrence of FEMA, the Flavor and Extract Manufacturers' Association of the U.S. Several flavor manufacturers have contributed data from their research. If several quantitative data have been reported for the same substance, the lowest and highest value have been listed, and the average of these two values has been used for the calculation. If no usage as added flavoring material has been reported, the Consumption Ratio has been given as: >999.999.

The average consumption of various foods was obtained from trade and growers associations, statistical and economic services of the U.S. Department of Agriculture and of Commerce or personal communication from experts. The annual per capita human consumption of foods used for the calculations are listed in Table I.

The annual quantities used by the flavor industry were derived from a U.S. survey. A joint survey was organized by the National Academy of Sciences and the FEMA for the year 1982, and published in the report on the use of food additives by the National Research Council/National Academy of Sciences.¹⁰

As data for these three factors are updated, the Consumption Ratio will be updated. Additional quantitative data on the occurrence of flavoring materials in food are being published regularly. A new survey on the quantities of added flavoring materials used in the U.S. is planned for the year 1987.

The first series of Consumption Ratios was published in 1983, covering 93 flavoring materials.¹¹ This third series contains Consumption

Ratios for 499 substances, of which 106 are Food Predominant +, and 309 are ++.

Since data on the quantities of flavoring materials used as additives are only available in the U.S., Consumption Ratios can only be calculated for materials used in the U.S. Such materials occur on the FEMA/GRAS list, or are permitted in the Code of Federal Regulations. In addition, the FEMA GRAS list includes 409 flavoring materials which have not yet been identified in food, and which, therefore, have a Consumption Ratio of 0.

The five CIVO reports list quantitative occurrence in food for an additional 792 flavoring materials.

Moreover, it is known from qualitative data on the occurrence of flavoring materials in food in another series of reports by CIVO, also supported by IOFI, that, so far, close to 5000 flavoring materials have been identified in food.¹²

The quantity of the 500 flavoring materials reported in this third cumulative series, used annually as added flavoring, represents more than 99% by weight of total quantity of all nature identical flavoring used annually.

In most countries other than the U.S., all nature-identical flavoring materials may be used. It is quite likely that many of these several thousand generally known materials are indeed being used, probably in relatively small quantities. Moreover, it is to be expected that flavor companies, as a result of their own research, are aware of the existence of many more nature-identical flavoring materials. Even though the individual and total quantities of such substances used can be assumed to be relatively small, a Consumption Ratio could only be calculated for them if the quantity used is known.

As explained in the introduction to the Second Cumulative Series, ¹³ lemon oil has been considered a food for the purpose of the calculation. The same status has been assigned to spearmint oil and peppermint oil. Several major spices have also been included.

The calculation of the Consumption Ratio has been carried out by dividing the total annual consumption of a flavoring material as a component of foods in the U.S. by the annual quantity used in the U.S. as added flavor. In the case of olive oil and green tea, the quantities consumed as food by a population of 230 million are theoretical values, since they are based on the per capita consumption of these foods respectively in France, Italy and Greece (combined) for olive oil and in Japan for green tea.

No consumption has been calculated for acetic



acid, since its main consumption is in the form of natural or synthetic vinegar.

The Consumption Ratio of limonene has only limited significance, since the d-limonene used as "added flavoring" is also a natural material, isolated from oranges by distillation.

The Consumption Ratio has been generally accepted as a valuable tool for the setting of priorities for the safety evaluation of flavoring substances. The general understanding of its significance is inspiring flavor researchers to publish the results of their work in a form which clearly relates the quantity of the substances identified to the food. A recent publication of Nouleau and Toulemonde is an excellent example of this fortunate tendency.¹⁴

Acknowledgement

The authors would like to thank all those who have supported them in their efforts to obtain, calculate and present data related to the Consumption Ratio. They are especially grateful for the contributions made by R. Heinze, Chairman of the Subcommittee on Natural Occurrence of FEMA and its members, in particular Dr. W. Zeiger They also want to thank M. Ahrenholz for her assistance in sorting and organizing the data for computerization.

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lamb fat



Table I. Annual Per Capita Food Consumption in the United States

Food	Annual Consumptionin kg	Reference	<u>Food</u>	Annual Consumption in kg	Referenc
almond, roasted	0.61	22	lemon oil	0.003	10
apple juice	3.20	25	lentils	0.35	37
apples	8.10	25	lobster	0.115	51
artichokes	0.20	22	loganberry	0.22	34
asparagus	0.317	50	maize	12.35	21
avocados	0.70	47	mango	0.160	97
bacon	4.20	22	melons (musk)	9.50	22
banana	10.20	27	melons, honeydew	0.90	22
beans	2.20	37	milk	102.00	28
beef, roasted	34.90	15	mushroom, fresh	0.93	28
beer	94.00	27	mushroom, dried	0.004	22
blackberry	0.22	34	mustard, brown & black	0.025	23
blueberry	0.22	34	nutmeg	* 0.010	22
brandy, grape	0.27	48	olive oil	9.30	17
bread, white	24.70	31	onion	5.20	21
bread, dark	3.80	46	orange juice	16.00	25
brussel sprouts	0.20	22	oregano	0.017	44
butter	2.00	19	peaches	3.50	25
cabbage	4.70	21	peanut, roasted	3.10	22
carrots	3.35	21	peanut oil	0.46	41
cauliflower	1.60	22	pear	1.20	22
celery leaves	3.36	37	peas	0.68	37
cheese, blue	0.09	22	pepper	0.163	42
cheese, cheddar	3.90	29	peppers, bell	1.60	22
cheese, swiss	2.87	20	peppermint oil	0.002	45
cherry	0.70	34	pineapple	2.10	25
chicken	25.20	22		29.20	38
chocolate	0.95	43	pork	1.90	26
	0.008	52	potato chips	57.00	21
cinnamon	0.004	44	potato		37
cloves	1.22	30	potato, sweet	2.80	22
cocoa		43	raisin	0.90	34
cocoa butter	0.524	43 22	raspberry	0.22	
coconut	0.18	18	rice, cooked	5.00	24
coffee roasted	4.85		rum	0.410	27
crab	0.041	51	spearmint oil	0.001	45
cranberries	0.67	47	strawberry	1.60	25
cucumbers	4.30	21	tea, black **	0.33	22
figs, dried	0.06		tea, green	0.80	53
filberts, roasted	1.18	28	tomato	30.80	21
fish	5.90	32	vanilla	0.004	16
grape	4.00	34	whiskey	1.18	27
grape, concord	1.00	39	wine, red	3.90	36
grape muscat	0.05	40	wine, table	5.10	36
grapefruit juice	1.20	25	wine, white	1.20	36
hazelnuts	1.18	28	yogurt	1.20	33
horseradish	0.10	22			
kiwifruit	0.08	47	* consumption data		

consumption data for Greece, France and Italy

^{0.06 35 **} consumption data for Japan



Consumption Ratio and Food Predominance of Flavoring Materials

FLAVORING MATERIAL:	FEMA	OCCURRING IN:	ANN CONS KG VIA THIS FD	ANN CONS KG VIA FOOD	ANN CONS KG AS ADDED FLAV	CONSUMPTION RATIO	FOOD PRE- DOMINANT
ACETAL	2002	BRANDY, GRAPE RUM	2,297.7 30,176.0				
		WHISKEY	7,070.0				
		HALLONDI	,,,,,,,,,	39,543.7	597	66.238	++
ACETALDEHYDE	2003	APPLE	754.6				
		APPLE JUICE	3,643.2				
		BEANS BEER	1,138.5 265,926.0				
		BRANDY, GRAPE	2,359.8				
		BREAD, WHITE	40,221.5				
		BUTTER	109.5				
		CARROT	8,533.2				
		CHEESE, CHEDDAR	3,408.6 924.1				
		CHEESE, SWISS CHICKEN, HEATED	1,246.1				
		CUCUMBER	1,087.9				
		FILBERTS, ROASTED	1357.0				
		FISH	3,392.5				
		GRAPEFRUIT JUICE	6,941.4				
		LENTILS LOGANBERRY	120.8 67.4				
		MAIZE	5,965.1				
		MANGO	1.4				
		MILK	293.3				
		ORANGE JUICE	11,040.0 49.9				
		PEANUT, ROASTED PEAR	1,932.0				
		PEAS	31,373.8				
		PINEAPPLE	483.0				
		PORK POTATO	80.5 1,638.8				
		RICE COOKED	46.0				
		RUM STRAWBERRY	3418.4				
		TEA, BLACK	1,288.0 19.1				
		TOMATO	32,586.4				
		WHISKEY	14,886.3				
		WINE, RED	55,165.5				
		WINE, TABLE WINE, WHITE	81,288.9 20,603.4				
		YOGURT	10,584.6				
				613,976.3	147,678	4.157	+
ACETOIN	2008	APPLE	354.0				
		BANANA	23.5 101,614.0				
		BEER BREAD, WHITE	4,544.8				
		BUTTER	460.0				
		CARROT	3.9				
		CHEESE, CHEDDAR	18,388.5				
		CHICREN, HEATED COCOA	6,955.9 144.2				
		COFFEE ROASTED	5,466.0				
		ORANGE JUICE	18.4				
		PEAS	17,829.6				
		PORK	33.6				
		RASPBERRY STRAWBERRY	126.7 3.7				
		WINE, RED	26,461.5				
		WINE, WHITE	6,886.2				
				189,314.5	7,882	24.017	++
ACETOPHENONE	2009	BEANS	202.4				
		BEEF ROASTED	401.4	-			
		COCOA CRANBERRIES	575.2 7.4				
		GRAPE, CONCORD	2.3				
		LENTILS	.9				
		OLIVE OIL	2.1				



	CONSUMPTION RATIO A	AND FOOD PREDOMINANCE	OF FLAVORING M	ATERIALS (c	.ontinued)				CONSUMPTION RATIO A	AND FOOD PREDOMINANCE	OF FLAVORING MAT	TERIALS (c	ontinued)		!
FLAVORING MATERIAL:	: FEMA	OCCURRING IN:	ANN COHS KG	ANN CONS KG VIA FOOD	G ANN CONS KG AS ADDED FLAV	CONSUMPTION V RATIO	N FOOD PRE	FLAVORING MATERIAL:	FEMA NO.	OCCURRING IN:	ANN CONS KG AN VIA THIS FD V		ANN CONS KG C		N FOOD PRE- DOMINANT
		PEAS RASPBERRY STRAWBERRIES TEA, GREEN	56.4 1.4 11.0 101.2		7 258	5.277				GRAPE, MUSCAT MUSHROOM, DRIED MUSHROOM, FRESH OLIVE OIL ORANGE JUICE	1.6 .2 181.9 320.9 883.2				
ALLYL ISO THIOCYANATE	2034	BRUSSELS SPROUTS CABBACE CAULIFLOWER HORSERADISH MUSTARD BR. 6 BL.	4.6 3,243.0 27.6 31,050.0 57,500.0			5 007			i	POTATO CHIPS RASPBERRY RUM STRAWBERRY TEA, BLACK TEA, GREEN	2.3 182.9 45,641.2 123.3 220.1 2,392.0				l
ALLYL MERCAPTAN	2035	ONION	478.4	91,825.2		5.997 66.444				WHISKEY WINE, RED WINE, WHITE	243,852.9 121,543.5 55,513.3	,546,052.2	16,308	94.803	++
ISO AMYL ACETATE	2055	APPLE JUICE	3,735.4 2,392.0				•	ISO AMYL BENZOATE	2058	BEER	216.2	216.2		26.691	++
		BANANA BEER BRANDY, GRAPE BUTTER	43,401.0 76,751.0 211.1 230.0					AMYL BUTYRATE	2059	APPLE JUICE GRAPE	25.8 237.4	263.2	6,659	.040	_
		COCOA GRAPE, MUSCAT MANGO PEACH RUM STRAWBERRY TEA, BLACK WHISKEY	56.1 9.9 .5 434.7 518.7 75.4 98.7 4,111.7					ISO ANYL BUTYRATE	2060	BANANA GRAPE, MUSCAT MANGO PEACHES RUM STRAWBERRY	5.5 117.3 1.2 .9 1,368.5 141.5		. 1		
		WINE, RED WINE, TABLE WINE, WHITE	3,588.0 5,630.4 1,462.8	142,707.4	73,839	1.933	+	ISO AMYL FORMATE	2069	TOMATO RUM	1,416.8	3,062.7		.224	
1-PENTANOL	2056	APPLE JUICE	754.6 1,122.4	****	13,023	1./	•	AMYL HEXANOATE	2074		1.4	188.6		.453	
		BEANS CHICKEN, HEATED COCOA CRANBERRIES GRAPE GRAPE, CONCORD GRAPE, MUSCAT LENTILS MUSHROOM, DRIED OLIVE OIL	9.2 611.6 113.6 10.8 3,634.0 11.5 3.5 7.6 2					ISO AMYL HEXANOATE	2075	APPLE BEER GRAPE GRAPEFRUIT JUICE RUM WHISKEY WINE, RED WINE, WHITE	5.5 4,432.1 282.0 .0 94.3 108.6 1,166.1 248.4	6,337.0		20.575	
		PEANUT, ROASTED PEAS POTATO CHIPS RASPBERRY RICE COOKED RUM	.7 42.8 26.2 12.7 46.0					ISO AMYL LAURATE	2077	BEER GRAPE, MUSCAT RUM	216.2 18.4 94.3	328.9			
		RUM STRAWBERRY TEA, BLACK TEA, GREEN	235.8 46.0 379.5 2,033.2					AMYL OCTANOATE	2079	APPLE JUICE	25.3	25.3	3 14	1.807	+
		TOMATO WINE, RED WINE, WHITE	7,438.2 2,332.2 248.4	19,125.1	. 407	46.991	**	ISO AMYL OCTANOATE	2080	BEER Grape, Muscat Rum	15.0 17,296.0 1.8 94.3				
ISO AMYL ALCOHOL	2057	APPLE APPLE JUICE BANANA BEER	1,350.8 7,580.8 2,756.6 1,059,380.0					TOO WEET PROPYONITE	2002	WHISKEY WINE, WHITE	219.9	17,628.6	6 24	734.526	i ++
		BUTTER COCOA COFFEE ROASTED CRANBERRIES	2.3 168.4 3,904.3					ISO AMYL PROPIONATE	2082	RUM	432.4 9.4	441.8	8 11,370	.039	-
		GRAPE, MUSCAT	30.8 18.9					ISO AMYL SALICYLATE	2084	GRAPE GRAPE, MUSCAT	14,283.9	14,286.2	2 81	176.372	! ++



	CONSUMPTION RATIO A	ND FOOD PREDOMINANCE	OF FLAVORING MA	TERIALS (co	ntinued)			1	CONSUMPTION RATIO A	AND FOOD PREDOMINANO	E OF FLAVORING M	MATERIALS (c	ontinued)		
FLAVORING MATERIAL:	FEMA NO.	OCCURRING IN:	ANN CONS KG AN	NN CONS KG	ANN CONS KG AS ADDED FLAV	CONSUMPTION RATIO	N FOOD PRE- DOMINANT	FLAVORING MATERIAL	: FEMA	OCCURRING IN:	ANN CONS KG VIA THIS FD	ANN CONS KG VIA FOOD	ANN CONS KG AS ADDED FLAV	CONSUMPTION RATIO	FOOD PRE-
ISO AMYL ISO VALERATE	2085	BEER WHISKEY	864.8 68.3					BENZYL BENZOATE	2138	CRANBERRIES	107.9	107.9	2,872	.038	-
BENZALDEHYDE	2127	ALMOND, ROASTED	561.2	933.1	4,983	.188	-	BENZYL ETHYL ETHER	2144	CRANBERRIES	15.4	15.4	.0	>999,999	++
		APPLE APPLE JUICE BEANS	46.7 294.4 16.8					BENZYL FORMATE	2145	CRANBERRIES	12.4	12.4	262	.047	_
		BEER BRANDY, GRAPE BREAD, WHITE	216.2 18.6 40,903.2					BORNEOL	2157	CARROT	863.0	863.0	54	15.981	++
		BUTTER CHERRY CHICKEN, HEATED	.9 144.9 463.7					BORNYL ACETATE	2159	CARROT	423.9	423.9	81	5.233	+
		COCOA COFFEE ROASTED CRANSERTES FIGS, DRIED GRAPE, MUSCAT KIMIFRUIT LENTILS HANGO MUSHROOM, FRESH OLIVE OIL PEACHES PEAS POTATO CHIPS RASPBERRY RICE COOKED RUM STRAWBERRY TEA, BLACK TEA, BLACK TEA, GREEN TOMATO WINE, WHITE	757.6 2,007.9 50.6 1.2 1.6 .0 .2 .5 1,691.9 2.1 925.8 16.1 196.7 15.2 23.0 188.6 38.6 155.7 690.0 8,500.8	57,945.9	156,738	. 368	_	2-BUTANONE		APPLE JUICE BEANS BREAD, WHITE BUTTER CARROT CHEESE, CHEDDAR CHEESE, SWISS CHICKEN, HEATED FISH LEWTILS MILK OLIVE OIL PEANUT OIL PEANUT, ROASTED PEAS PEAS POTATO CHIPS RUM TOMATO YOGURT	84.6 102.1 70,132.1 73.6 154.1 30,139.2 264.0 281.1 81.4 4.1 961.9 7.4 71.3 234.6 359.7 30.6 2.8 31,878.0	135,979.5	326	417.119	**
BENZOPHENONE BENZYL ACETATE	2134 2135	•	9.4 3.7 14.0 8.1	1.2	27	.04	-	BUTYL ACETATE	2174	APPLE APPLE JUICE BANANA BEER BUTTER GRAPE, CONCORD GRAPE, MUSCAT	27,525.9 820.6 8,211.0 2,270.1 9.2 2.5				
		GRAPE, MUSCAT MELONS (HONEYDEW) MELONS (MUSK) OLIVE OIL PEACHES RICE COOKED STRAWBERRY TEA, BLACK WINE, RED	.9 18.2 218.5 641.7 450.8 .0 20.2 318.8 1,749.2	3,453.5	8,471	.40	o7 -	ISO BUTYL ACETATE	2175	RUM STRAWBERRY APPLE JUICE BAHANA BEER BRANDY, GRAPE GRAPE, MUSCAT MANCO RUM	.9 20.2 184.0 4,692.0 3,567.3 99.4 3.0 3.7 141.5	38,861.3	6,930	5.607	+
BENZYL ALCOHOL	2137	APPLE JUICE BRANDY, GRAPE CHICKEN, HEATED CRANBERRIES GRAPE, CONCORD GRAPE, MUSCAT GRAPERRUT JUICE MUSRROOM, FRESH PEACHES RASPBERRY STRAMBERRY TEA, BLACK TEA, GREEN MINE, WHITE	12.2 2,135.1 1.2 .7 84.9 2.3 21.9 1.6 397.9 354.2 129.0 20.2 20.2 2,852.0 403.7 74.5	7,098.6	71,121	.10	oo -	BUTYL ALCOHOL	2178	STRAMBERRY WHISKEY WINE, RED WINE, TABLE WINE, WHITE ALMOND, ROASTED APPLE APPLE JUICE BEANS BEER BUTTER CHEESE, SWISS CHICKEN, HEATED GRAPE, CONCORD GRAPE, MUSCAT	18.4 165.6 547.2 176.0 73.1 2,104.5 52,825.5 15,088.0 3.5 24,863.0 46.0 5611.2 7,534.8 16.1 1.8	9,671.2	: 13,454	.718	



27,349.6

242.031

	CONSUMPTION RATIO AN	ND FOOD PREDOMINANCE	OF FLAVORING MA	ATERIALS (c	ontinued)				CONSUMPTION RATIO A	ND FOOD PREDOMINANCE	OF FLAVORING	MATERIALS (continued)		
FLAVORING MATERIAL:	Fema No.	OCCURRING IN:	ANN CONS KG A	NN CONS KG	ANN CONS KG AS ADDED FLAV	CONSUMPTION RATIO	FOOD PRE- OOMINANT	FLAVORING MATERIAL:	FEMA No.	OCCURRING IN:	ANN CONS KG VIA THIS FD	ANN CONS KG VIA FOOD	ANN CONS KG AS ADDED FLAV	CONSUMPTION RATIO	FOOD PRE- DOMINANT
		LENTILS	9.7					ISO BUTYL PROPIONATE	2212	RUM	47.2				
		MUSHROOM, FRESH OLIVE OIL	2.1 2.1									47.2	22	2.145	+
		ORANGE JUICE PEAS	5,520.0 21.9			,		BUTYL ISO VALERATE	2218	STRAWBERRY	1.8	1.8	1,449	.001	-
		RASPBERRY RUM	4.1 1,886.0					BUTYRALDEHYDE	2219	APPLE JUICE	257.6				
		STRAWBERRY	20.2							BEER BREAD, WHITE	2,162.0 146,115.3				
		TEA, BLACK TEA, GREEN	3,833.0 1,748.0			•			•	BUTTER	20.7				
		TOMATO WHISKEY	2,833.6 814.2							CARROT CHICKEN, HEATED	115.7 753.5				
		WINE, RED WINE, WHITE	1,704.3 690.0							PEANUT OIL PEANUT, ROASTED	.0 142.6				
		-		122,133.6	1,467	83.255	++			PEAR PEAS	386.4				
ISO BUTYL ALCOHOL	2179	APPLE APPLE JUICE	1,105.6							RICE COOKED	230.0				
		BEANS	7,360.0 81.4									150,204.0	339	443.081	++
		BEER BREAD, WHITE	929,660.0 46,016.1					ISO BUTYRALDEHYDE	2220	APPLE JUICE BEANS	2.3 52.7	1			
		CRANBERRIES GRAPE	12.4 519.8							BEER BREAD, WHITE	5,405.0 19,769.9				
		LENTILS MUSHROOM, DRIED	8.1							CARROT FISH	50.1				
		PEAS	19.8							LENTILS	3,256.8 2,3				
		RASPBERRY RUM	55.7 18,011.3							OLIVE OIL PEANUT OIL	49.2 396.8				
		WHISKEY WINE, RED	99,739.5 57,408.0							PEANUT, ROASTED PEAS	1,051.8 17.0				
		WINE, WHITE	21,597.0	,181,594.9	1,938	609.697	++			PORK POTATO CHIPS	204.9				
BUTYL BUTYRATE	21.06	APPLE		,101,334.3	1,730	007.077	•			RUM TEA. BLACK	23.7				
DOLLE BOLINALE	2186	APPLE JUICE	372.6 20.9							WHISKEY	7.6 2,035.5				
		MANGO ORANGE JUICE	.7 18.4					BUTYRIC ACID	2221	APPLE JUICE	2,907.2	32,369.3	330	98.089	++
		STRAWBERRY	16.6	429.2	326	1.316	+			BEER	39,997.0				
ISO BUTYL BUTYRATE	2187	BRANDY, GRAPE	.7							BREAD, WHITE BUTTER	43,175.6 11,513.8				
		MANGO	.9	1.6	72	.023				CHEESE, BLUE CHEESE, CHEDDAR	27,075.6 124,683.0				
NUMBER 700 NUMBER 700				1.0	72	.023	-			CHEESE, SWISS COFFEE ROASTED	603,661.5 70,220.8				
BUTYL ISO BUTYRATE	2188	APPLE	245.9	245.9	35	7.026	+		4	FISH MILK	4,071.0 156,009.0				
BUTYL FORMATE	2196	APPLE JUICE	1.2							MUSHROOM, DRIED	1.8				
		BUTTER	9.2	10.4	.4	26.000	++			RASPBERRY RUM	40.5 358.3				
ISO BUTYL FORMATE	2107	D C C D	17 206 0	10.4	.,	20.000	**			STRAWBERRY TEA, BLACK	901.6 75.9				
130 BUILL FORMALE	2197	BEER	17,296.0	17,296.0	4.0	4,324.000	++			WHISKEY WINE, WHITE	2,131.9 157.3				
BUTYL HEPTANOATE	2199	APPLE	15.0							YOGURT	4,360.8				
		APPLE JUICE	1.8	16.8	37	.454	_					1,091,342.6	26,636	40.973	++
BUTYL HEXANOATE	2201	MANGO		2010	٠,			ISO BUTYRIC ACID	2222	BEER MUSHROOM, DRIED	42,159.0 3.9				
BOTTE BEARDATE	2201	STRAWBERRY	.5 1.8							RUM STRAWBERRY	47.2 371.7				
				2.3	11	.209	-			WHISKEY WINE, RED	1,049.0				
ISO BUTYL HEXANGATE	2202	BEER	432.4	432.4	25	17.296	++			WINE, WHITE	291.2				
BUTYL LAURATE	2206	APPLE JUICE	2.5									45,222.7	751	60.217	**
- -	2230		2.3	2.5	.4	6.250	+	CAMPHENE	2229	CARROT LEMON OIL	6,337.2 1,828.5				
BUTYL PROPIONATE	2211	APPLE	28.1							NUTHEG OREGANO	11,730.0				
				28.1	23	1.222	+			PEPPER	7,029.5				
								1		RASPBERRY	189.8	27,349.6	113	242.031	++



	CONSUMPTION RATIO A	ND FOOD PREDOMINANCE	OF FLAVORING M.	ATERIALS (co	ontinued)				CONSUMPTION RATIO A	ND FOOD PREDOMINANCE	OF FLAVORING H	ATERIALS (co	ontinued)		
FLAVORING MATERIAL:	F ema No •	OCCURRING IN:			ANN CONS KG AS ADDED FLAV		FOOD PRE DOMINANT	FLAVORING MATERIAL:	FEMA NO.	OCCURRING IN:	ANN CONS KG VIA THIS PD	ANN CONS KG VIA FOOD	ANN CONS KG AS ADDED FLAV	CONSUMPTION RATIO	FOOD PRE- DOMINANT
D-CAMPHOR	2230	NUTHEG OREGANO RASPBERRY	3,450.0 156.4 1.4	3,607.8	19,075	.189	-			MANGO ORANGE JUICE	147.2 147.2	1,087.9	7,972	.136	-
CARVACROL	2245	BEER OREGANO	23,782.0 56,421.3	80,203.3	8.6	9,325.965	++	DL-CITRONELLOL	2309	BEER GRAPE ORANGE JUICE TEA, BLACK	216.2 722.2 184.0 455.4				
CARVEOL	2247	CELERY LEAVES GRAPEFRUIT JUICE MANGO SPEARMINT OIL	1,043.3 233.2 1.6 1,150.0	2,428.1	95	25.559	++	CITRONELLYL ACETATE	2311	GRAPEFRUIT JUICE LEMON OIL ORANGE JUICE	2.8 724.5 36.8	764.1	507 475	1.608	+
4-carvomenthenol	2248	APPLE APPLE JUICE CARROT	16.8 20.2 493.1					CITRONELLYL BUTYRATE	2312	томато	63,756.0	63,756.0	249	256.048	++
		GRAPEFRUIT JUICE LEMON OIL NUTHEG	35.9 1,242.0 31,050.0			•	!	CITRONELLYL PROPIONATE	2316	томато	127,512.0	127,512.0	7.7	16,560.000	++
ı		ORANGE JUICE OREGANO PEPPER RASPBERRY	2,097.6 1,837.7 2,155.8 19.1	38,968.2	163	239.069	++	P-CRESOL	2337	BUTTER CHICKEN, HEATED COFFEE ROASTED OLIVE OIL RUM TEA, GREEN	1.2 .7 7,529.7 427.8 9.4 18.4				
CAEVONE	2249	CELERY LEAVES GRAPEFRUIT JUICE LEMON OIL ORANGE JUICE SPEARMINT OIL	772.8 29.0 158.7 36.8 155,480.0	156,477.3	20, 702	7.558	+	P-CYMENE	2356	WHISKEY WINE, RED BUTTER	6.9	7,995.0	17	470.295	++
CARVYL ACETATE	2250	CELERY LEAVES SPEARMINT OIL	1,468.3 4,600.0	6,068.3	20 , 702	67.425	++			CARROT LEMON OIL NUTHEC ORANGE JUICE OREGANO RASPBERRY	8,367.6 4,899.0 4,945.0 36.8 10,987.1 65.8				
BETA CARYOPHYLLENE !	2252	CARROT CLOVES GRAPEFRUIT JUICE LEMON OIL NUTHEC ORANGE JUICE OREGANO PEPPER RASPBERRY TEA, GREEN	18,607.7 15,732.0 5,216.4 1,759.5 2,300.0 36.8 4,770.2 230,563.5 86.0 515.2					GAMMA DECALACTONE	2360	BEER BUTTER COCONUT MANGO PEACHES RUM STRAWBERRY	2,270.1 299.0 4.1 1.6 764.8 1.8	29,301.5 3,527.2	1,408	20.810	++
1		ILA, GREEN	515.2	279,587.3	1,839	152.033	++		2261	DIVERSE	3,461.5	3,327.2	647	5.451	*
CINNAMALDEHYDE	2286	CINNAMON CRANBERRIES	38,640.0 1.6	38,641.6	141,336	. 273	-	DELTA DECALACTONE	2361	BUTTER COCONUT MANGO PEACHES RASPBERRY	2,010.0 .7 56.4 35.7				
CINNAMIC ACID	2288	BRANDY, GRAPE GRAPE, CONCORD STRAWBERRY	9.4 4.6 169.3	183.3	366	.502	_			RUM STRAWBERRY WINE, WHITE	1.8 36.8 16.6	5,619.5	4,801	1.170	+
CINNANTL ALCOHOL	2294	CINNAMON CRANBERRIES STRAWBERRY	147.2 1.6 22.1	170.9	946	.181	-	DECANAL	2362	ALMOND, ROASTED AVOCADO BEER BUTTER CULCEN WASTED	561.2 .9 216.2 184.0		·		
CITRAL	2303	LEMON OIL ORANGE JUICE TOMATO	16,215.0 570.4 21,287.4	29 072 0	50 000					CHICKEN, HEATED COCONUT CRANBERRIES GRAPEFRUIT: JUICE	3.0 2.1 13.8 110.4				
CITRONELLAL	2307	LEMON OIL	793.5	38,072.8	58,890	.646	-			LEMON OIL MILK ORANGE JUICE	759.0 7.1 294.4				



	CONSUMPTION RATIO A	ND FOOD PREDOMINANCE	OF FLAVORING MA	ATERIALS (co	ontinued)			-	CONSUMPTION RATIO A	ND FOOD PREDOMINANCE	OF FLAVORING M	ATERIALS (c	ontinued)		
FLAVORING MATERIAL:	FEMA NO.	OCCURRING IN:	ANN CONS KG A				FOOD PRE-	FLAVORING MATERIAL:	FEMA NO.	OCCURRING IN:			ANN CONS KG AS ADDED FLAV		FOOD PRE-
	;	PEARUT OIL PEARUT, ROASTED RAISINS RICE COOKED STRAWBERRY TOMATO	36.6 178.3 12.4 11.5 276.0 7,792.4	10,459.3	987	10.598	++			STRAMBERRY TEA, BLACK TOMATO WHISKEY WINE, RED WINE, WHITE YOGURT	38.6 8.1 3,542.0 139.8 1,973.4 193.2 2,525.4		25.250		
CAPRIC ACID	2364	BEER BUTTER CHEESE, BLUE	44,321.0 41,147.0 26,289.0					DIETHYL MALATE	2374	BRANDY, GRAPE GRAPE	12.4 8,280.0	28,373.0	25,368	1.121	+
		CHEESE, CHEDDAR CHEESE, SWISS COCONUT	48,886.5 75,911.5 41.4							WINE, RED WINE, WHITE	4,081.4 110.4	12,484.2	113	110.480	++
		COFFEE ROASTED GRAPE GRAPE, CONCORD GRAPEFRUIT JUICE	19,075.1 64.4 9.2 19.3	•				DIETHYL MALONATE	2375	WINE, RED WINE, WHITE	26.9 2.8	29.7	1,744	.017	-
		LAMB MILK PORK RUM STRAWBERRY	326,600.0 199,410.0 151,110.0 485.8 12.9			,	1	DIETHYL SUCCINATE	2377	APPLE JUICE RASPBERRY WHISKEY WINE, RED	21,785.6 60.7 135.7 13,858.7				
		TEA, GREEN WHISKEY WINE, WHITE	18.4 7,205.7 712.1						2222	WINE, WHITE	1,656.0	37,496.7	1,141	32.862	++
DECANOL	2365	YOGURT APPLE JUICE	8,155.8 1,656.0	949,475.1	4,530	209.597	++ '	DIHYDROCARVYL ACETATE	2380	CELERY LEAVES SPEARMINT OIL	3,220.0	3,297.3	1.3	2,536.385	++
DECAROL	2363	CRANBERRIES GRAPEFRUIT JUICE ORANGE JUICE	12.4 8.3 368.0		1			3,7 DIMETHYL-1-OCTANOL	2391	LEMON OIL	690.0	690.0	14	49.286	++
		RASPBERRY WHISKEY	2.8 51.5	2,099.0	95	22.095	++	GAMMA DODECALACTONE	2400	BUTTER COCONUT PEACHES RUM	437.0 2.1 120.8 1.8				
2-DECENAL	2366	BEEF ROASTED CARROT CHICKEN, HEATED	481.6 269.8 1,101.2							STRAWBERRY	47.8	609.5	385	1.583	+
		MILK OLIVE OIL PEANUT OIL PEANUT, ROASTED POTATO CHIPS	1.4 32,085.0 8.1 107.0 56.8					DELTA DODECALACTONE	2401	BUTTER COCONUT PEACHES RASPBERRY RUM STRAWBERRY	8,636.5 1,244.1 201.3 15.2 1.8 101.2				
DECYL ACETATE	2367	GRAPEFRUIT JUICE	13.8	34,110.9	24	1,421.288	++	2-DODECENAL	2402	MILK	14.0	10,200.1	5,753	1.773	+
		LEMON OIL STRAWBERRY	345.0 1.8	360.6	7.2	50.084	++	T CODECEMENT	2402	PEANUT OIL PEANUT, ROASTED	3.2 46.5	63.7	22	2.895	+
DECYL BUTYRATE	2368	STRAWBERRY	7.4	7.4	5.4	1.370	+	ESTRAGOLE	2411	APPLE JUICE OREGANO	10.6 156.4				
TIACETYL :	2370	AVOCADO BANAMA BEER BRAKDY, GRAPE BREAD, WHITE BUTTER CHEESE, CHEDDAR CHESSE, SWISS CHICKEN, HEATED COFFEE ROASTED CRAMBERRIES GRAPE MILK PORK POTATO CHIPS RASPBERRY RUM	.0 70.4 6,702.2 43.5 3,493.9 552.0 2,108.0 594.1 2,898.0 3,011.9 2.3 18.4 176.0 67.2 2.3 3.3 5.2					ETHYL ACETATE	2414	APPLE JUICE BANANA BEER BUTTER : CHESSE, CHEDDAR CHICKEN, HEATED COFFEE ROASTED CRANBERIES GRAPE, HUSCAT OLIVE OIL RASPBERRY RUM STRAWBERRY	846.4 198,237.0 735,080.0 575.0 448.5 811.4 223.1 12.4 50.6 42.8 404.8 170,663.0 130.6	167.0	154	1.085	+



c -	CONSUMPTION RATIO A	ND FOOD PREDOMINANCE	E OF FLAVORING M	ATERIALS (c	ontinued)				CONSUMPTION RATIO AN	D FOOD PREDOMINANCE	OF FLAVORING MA	TERIALS (c	ontinued)		
FLAVORING MATERIAL:	FEMA NO.	OCCURRING IN:	ANN CONS KG A	INN CONS KG VIA FOOD	ANN CONS KG AS ADDED FLAT	CONSUMPTION RATIO	FOOD PRE-	FLAVORING MATERIAL:	PEMA NO.	OCCURRING IN	ANN CONS KG A	NN CONS KG VIA FOOD	ANN CONS KG AS ADDED FLAV	CONSUMPTION RATIO	FOOD PRE- DOMINANT
		TOMATO WHISKEY WINE, RED WINE, WHITE	31,878.0 109,645.6 119,301.0 20,720.7	,389,090.9	14,405	96.432	++			COCOA GRAPE GRAPE, CONCORD GRAPE, MUSCAT HANGO RUM	140.3 1,683.6 2.3 .5 1.4 1,178.8				
ETHYL ACETOACETATE	2415	STRAWBERRY WINE, RED	3.7	3.7	17,033	.000	_			STRAWBERRY WHISKEY WINE, RED	5.5 7,992.7 224.3				
ETHYL ACRYLATE	2418	PINEAPPLE	386.4	386.4	,	3,864.000	++			WINE, TABLE WINE, WHITE	164.2 289.8	18,104.1	1,748	10.356	++
ETHYL ANTHRANILATE	2421		6.9	6.9	117	.059	-	ETHYL FORMATE	2434	BUTTER GRAPE	21,836.2 365.7 197.8				
ETHYL BENZOATE	2422	BEER COCOA CRANBERRIES CRANBERRIES KIWIFRUIT MUSHROOM, FRESH	216.2 154.3 6.4 10.1 2.8 32.2		ı					PINEAPPLE RASPBERRY RUM WHISKEY WINE, RED WINE, WHITE	29,704.5 108.8 528.1 1,302.7 3,812.3 621.0	58,477.1	7,701	7.594	+
		PEACHES RASPBERRY RUM STRAWBERRY	587.7 6.0 47.2 7.4	1,070.3	579	1.848	+	4-ETHYLGUAIACOL	2436	BEER BRANDY, GRAPE COFFEE ROASTED CRANBERRIES	108.1 31.1 1,506.0 1.6	30,	.,		
ETHYL BUTYRATE	2427	APPLE JUICE BANANA BEER BRANDY, GRAPE BUTTER CHEESE, CHEDDAR	512.4 1,475.7 398.8 4,648.3 62.1 4.6 627.9			,				GRAPEFRUIT JUICE OLIVE OIL RUM WHISKEY WINE, RED	.2 623,070.0 84.9 49.2 184.0	625,035.1	. 466	1,341.277	++
		CHESSE, SWISS GRAPE GRAPE, CONCORD KIWIFRUIT MANGO MELON (HONEYDEW) ORANGE JUICE	363.2 110.4 23.0 66.7 156.4 16.6			ł	:	ETHYL HEPTANOATE	2437	BEER BRANDY, GRAPE GRAPEFRUIT JUICE RUM	648.6 2.5 .2 235.8	887.1	906	.979	_
		STRAWBERRY WHISKEY WINE, RED WINE, TABLE WINE, WHITE	699.2 20,746.0 938.4 176.4 852.2 410.6 189.1		i			ETHYL CAPROATE	2439	APPLE APPLE JUICE BEER BRANDY, GRAPE BUTTER GRAPE KIWIFRUIT	111.8 1,251.2 11,891.0 195.7 9.2 27.6				
ETHYL ISO BUTYRATE	2428	APPLE JUICE BEER GRAPE GRAPE, MUSCAT KIWIFRUIT MANCO RUM	9.9 6,486.0 181.2 3.0 .5 2.8 754.4	32,478.0	137,259	.236	-			MANGO MELON (HONEYDEW) ORANGE JUICE PINEAPPLE STRAWBERRY WINE, RED WINE, TABLE WINE, WHITE	.7 8.3 73.6 386.4 929.2 1,524.9 656.9 179.4	17,246.	6 3,121	5. 527	
ETHYL CINNAMATE	2430	WINE, WHITE BEER COCOA	46.9 108.1 154.3	7,484.7	1,839	4.071	+	ETHYL LACTATE	2440	BEER BRANDY, GRAPE RUM WINE. RED	216.2 8,942.4 2,923.3 182,091.0				
		STRAWBERRY WINE, WHITE	12.9 16.6	291.9	289	1.010	+			WINE, WHITE	52,187.5	246,360.	4 7,021	35.089	++
ETHYL DECANOATE	2432	APPLE JUICE BEER BRANDY, GRAPE BUITER	22.1 3,351.1 3,042.9 4.6					ETHYL LAURATE	2441	APPLE JUICE BEER BRANDY, GRAPE COCOA COCONUT	294.4 5,415.8 192.5 56.1 2.1				



	CONSUMPTION RATIO A	AND FOOD PREDOMINANCE	E OF FLAVORING H	MATERIALS (c	ontinued)				CONSUMPTION RATIO A	ND FOOD PREDOMINANCE	OF FLAVORING N	MATERIALS (c	ontinued)		
FLAVORING MATERIAL:	FEMA NO.	OCCURRING IN:			ANN CONS KG AS ADDED FLAV		FOOD PRE- DOMINANT	FLAVORING MATERIAL:	FEMA NO.	OCCURRING IN:	ANN CONS KG	ANN CONS KG VIA FOOD	ANN CONS KG AS ADDED FLAV	CONSUMPTION RATIO	FOOD PRE
		MANGO RUM WHISKEY	3.7 707.3 6,174.4							WINE, WHITE	124.2	40,781.5	34,881	1.169	+
		WINE, RED WINE, WHITE	3,184.4 317.4	16,348.1	2,228	7.336	+	ETHYL PYRUVATE	2457	WINE, WHITE	209.8	209.8	59	3.556	+
ETHYL 2-METHYLBUTYRATE	2443	APPLE APPLE JUICE	111.8 15.2					ETHYL SALICYLATE	2458	GRAPE, CONCORD RASPBERRY	4.6 4.1				
		BRANDY, GRAPE GRAPE KIWIFRUIT	3.7 9.2 .0					ETHYL VALERATE	2462	RUM	3,772.0	8.7	45	.193	-
		MELON (HONEYDEW) ORANGE JUICE RUM	20.7 18.4 235.8					:		WINE, RED WINE, WHITE	6,727.5 358.8	10,858.3	462	23.504	++
		STRAWBERRY WINE, WHITE	185.8 3.0	603.6	2,559	.236	-	ETHYL ISO VALERATE	2463	APPLE JUICE BEER	1,619.2 216.2				
ETHYL MYRISTATE	2445	BRANDY, GRAPE COCONUT MANGO	192.5 2.1 4.6							BRANDY, GRAPE GRAPE PINEAPPLE RUM	6.2 391.0 1,932.0 235.8				
		RUM WHISKEY	282.9 1,077.6	1,559.7	2,482	.629	_	i		STRAWBERRY WINE, RED WINE, WHITE	57.0 53.8 9.7				
ETHYL NONANOATE	2447	RUM	28.3	28.3	471	.060	_	EUCALYPIOL	2465	CRANBERRIES GRAPEFRUIT JUICE	4.6 24.8	4,520.9	2,899	1.560	+
ETHYL OCTANOATE	2449	BEER BUTTER ORANGE JUICE	25,944.0 18.4 18.4							NUTMEG OREGANO	6,900.0 4,261.9	11,191.3	3,969	2.819	+
		STRAWBERRY WINE, RED WINE, WHITE	38.6 1,794.0 324.3			17.054		EUGENOL	2467	BANANA BRANDY, GRAPE CARROT	23.5 3.2 215.7				
ETHYL OLEATE	2450	BRANDY, GRAPE GRAPEFRUIT JUICE	93.2 2.8	28,137.7	1,576	17.854	++			CLOVES MUSHROOM, DRIED NUTMEG	138,184.0 .0 805.0				
		RUM WHISKEY	754.4 81.4	931.8	135	6.902	+			ORANGE JUICE RUM STRAWBERRY	73.6 69.7 12.9				
ETHYL PALMITATE	2451	BRANDY, GRAPE COCOA COCONUT	406.9 84.2 2.1					:	*	WHISKEY WINE, WHITE	28.5 5.5	139,421.6	1.4,043	9.927	+
		GRAPEFRUIT JUICE MANGO RUM	11.0 1.8 2,357.5			•	•	ISO EUGENOL	2468	BEER COFFEE ROASTED NUTMEG	432.4 111.6 1,610.0		:		
		TEA, GREEN WHISKEY	55.2 5,007.3	7,926.0	8.2	966.585	++			RUM	7.6	2,161.6	4 0:3	5.364	+
ETHYL PHENYLACETATE	2452	BRANDY, GRAPE COCOA GRAPEFRUIT JUICE	1.2 28.1					EUGENYL ACETATE	2469	CLOVES	19,228.0	19,228.0	407	47.243	++
		WINE, RED WINE, WHITE	.9 9.0 2.1	41.3	33	1.252	+	EUGENYL METHYL ETHER	24/5	GRAPEPRUIT JUICE NUTMEG ORANGE JUICE	5.5 1,150.0 147.2	. 200 7	105	3.040	
ETHYL 3-PHENYLPROPIONATE	2455	RUM	47.2	47.2		472.000	++	ISO EUGENYL METHYL ETHER	2476	ORANGE JUICE	110.4	1,302.7	185	7.042	+
ETHYL PROPIONATE	2456	APPLE JUICE BEER	150.9 10,918.1					FARNESOL.	2478	BRANDY, GRAPE GRAPEFRUIT JUICE	146.1			,	
		BRANDY, GRAPE KIWIFRUIT RUM STRAWBERRY	1,251.4 .9 4,715.0 20.2					FENCHYL ALCOHOL	2480	RASPBERRY BEER	96.1 864.8	243.1	1.3	187.000	++
		TOMATO WHISKEY WINE, RED	13,813.8 817.0 8,970.0					TENORITE ADDORES	2480	GRAPEFRUIT JUICE	8.3	873.1	67	13.031	++



	CONSUMPTION RATIO	AND FOOD PREDOMINANCE	OF FLAVORING M	ATERIALS (co	ontinued)				CONSUMPTION RATIO A	AND FOOD PREDOMINANCE	OF PLAVORING M	ATERIALS (c	ontinued)		
FLAVORING MATERIAL:	FEMA NO.	OCCURRING IN:	ANN CONS KG	ANN CONS KG VIA FOOD	ANN CONS KO	G CONSUMPTION	FOOD PRE- DOMINANT	FLAVORING MATERIAL:	FEMA NO.	OCCURRING IN:			ANN CONS KG AS ADDED FLAV		POOD PRE- DOMINANT
FORMIC ACID	2487	BEER BUTTER CHEESE, CHEDDAR CHEESE, SWISS	702,650.0 4.6 6,849,400.0 103,635.7							TOMATO WINE, RED	21,252.0 179.4	25,810.6	1,762	14.647	
		COFFEE ROASTED FISH GRAPE	1,180,199.0 20,355.0 26,220.0					GERANYL BUTYRATE	2512	TOMATO	21,252.0	21,252.0	1,132	18.774	++
		MILK PEAS STRAWBERRY TEA, BLACK	398,820.0 1.6 864.8 30.4					GERANYL ISO BUTYRATE	2513	BEER CARROT	432.4 15.4	447.8	7.2	62.195	++
FUR FURAL	2489	ALMOND, ROASTED	.0	9,282,181.1	453	20,490.466	++	GLYCEROL	2525	BEER GRAPE WINE, WHITE	12,673,000.0 9,016,000.0 2,373,600.0				
		AVOCADO BEEF ROASTED BEER BREAD, WHITE COFFEE ROASTED CRANBERRIES GRAPEFRUIT JUICE MUSHROOM, FRESH POTATO CHIPS	1.2 160.5 3,351.1 42,039.4 175,691.3 13.8 93.8 10.8 61.2					GUATACOL	2532	BEER BUTTER COCOA COFFEE ROASTED RUM WHISKEY WINK, RED	2 648.6 2.5 56.1 7,418.2 37.7 16.3 4.6	4,062,600.0		6.478	+
		RUM TEA, BLACK TEA, GREEN WHISKEY WINE, RED WINE, WHITE	1,178.8 341.6 18.4 4,111.7 269.1 1,421.4	228,764.1	2,296	99.638	++	GAMMA HEPTALACTONE	2539	ASPARAGUS, COOKED BEEF ROASTED BEER PORK STRAWBERRY TEA, GREEN	7.4 80.3 432.4 1,679.0 3.7	8,184.0	67	122.149	**
FURFURYL ACETATE	2490	ALMOND, ROASTED BEER COFFEE ROASTED	420.9 972.9 12,103.3	13,497.1	33	409.004	++	HEPTANAL	2540	APPLE JUICE AVOCADO	55.2 441.6 .2	2,258.0	294	7.681	+
FURFURYL ALCOHOL	2491	ALMOND, ROASTED BEER CHICKEN, HEATED COPFEE ROASTED MILK POTATO CHIPS TEA, GREEN	2,244.8 97,290.0 40.5 575,040.3 29,325.0 8.7 128.8	704,078.1	67	10,508.628	**			BEER BREAD, WHITE BUTTER CARROT CHICKEN, BEATED COCONUT FISH GRAPEFRUIT JUICE LEMON OIL	2,162.0 16,474.9 259.9 115.7 5.8 2.1 2.8 2.5 27.6				
FURFURYL MERCAPTAN	2493	COFFEE ROASTED	1,729.1	1,729.1	63	27.446	++			MILK ORANGE JUICE PEANUT OIL	4.6 36.8 3.2				
GERANIOL	2507	APPLE JUICE BEER BLUEBERRY GRAPE GRAPE, MUSCAT GRAPERUIT JUICE LEMON OIL NUTMEG ORANGE JUICE RASPBERRY TRA, BLACK TEA, GREEN HINE, RED WINE, WHITE	515.2 108.1 1.6 3,459.2 5.8 30.4 241.5 14,145.0 128.8 29.2 834.9 1,288.0 40.5 27.8	20.856.0	2 020			2-HEPTANONE	2544	PEANUT, ROASTED PORK POTATO CHIPS RICE, COOKED TEA, BLACK BUER BUER BUER BUER GHESSE, BLUE CHESSE, BLUE CHESSE, SWISS COCONUIT HILK MUSHROOM, FRESH	32.2 80.5 46.0 23.0 106.3 2,162.0 43,175.6 749.8 727.7 3,274.1 511.5 1,656.0 235.8	19,827.7	49	404.644	**
GERANYL ACETATE	2509	GRAPE GRAPE, MUSCAT GRAPEFRUIT JUICE LEMON OIL NUTMEC ORANGE JUICE RASPBERRY	432.4 7.6 8.3 3,795.0 11.5.0 1.8.4 2.5	20,856.0	2,029	10.278	++			PEANUT OIL REANUT, ROASTED REAR FOTATO CHIPS RICE COOKED STRAWBERRY	3.2 46.5 303.6 6.7 23.0 38.6	52,918.5	421	125.697	++



	CONSUMPTION RATIO A	AND FOOD PREDOMINANCE	OF FLAVORING MATE	RIALS (co	ontinued)				CONSUMPTION RATIO A	ND FOOD PREDOMINANCE	OF FLAVORING M	ATERIALS (co	ontinued)		
FLAVORING MATERIAL:	FEMA NO.	OCCURRING IN:	ANN CONS KG ANN VIA THIS FD VI	CONS KG A FOOD	ANN CONS KG AS ADDED FLAV	CONSUMPTION RATIO	FOOD PRE- DOMINANT	FLAVORING MATERIAL:	FEMA NO.	OCCURRING IN:			ANN CONS KG AS ADDED FLAV	CONSUMPTION RATIO	FOOD PRE- DOMINANT
3-HEPTANONE	2545	COFFEE ROASTED	446.2	446.2	3.6	123.944	++			TOMATO	12,078.2	99,696.8	1,884	52.918	++
4-HEPTANONE	2546	COFFEE ROASTED	557.8	557.8	58	9.617	+	2,3-HEXANEDIONE	2558	COFFEE ROASTED	1,968.8	1,968.8	95	20.724	++
HEPTYL ACETATE	2547	APPLE BEER GRAPE GRAPE, MUSCAT	22.3 432.4 158.7 1.6	615.0	5.0	123.090	**	HEXANOIC ACID	2559	APPLE APPLE JUICE BEER BUTTER CHEESE, BLUE	1,117.8 5,372.8 279,979.0 10,198.2 19,044.0	2,700.0			
HEPTYL ALCOHOL	2548	APPLE APPLE JUICE ASPARAGUS, COOKED BRANDY, GRAPE CRANBERRIES GRAPE GRAPE, MUSCAT KIWIFRUIT OLIVE OIL RASPBERRY RICE COOKED STRAMBERRY	3.2 7.4 1.4 31.1 3.0 148.1 2.3 .0 4.4 11.5 38.6							CHEESE, CHEDDAR CHEESE, SHISS COCONUT COFFEE ROASTED GRAPE GRAPE, COMCORD MILK MUSHROOM, DRIED ORANGE JUICE POOK RASPBERRY RUM STRAMBERRY	43,504.5 39,606.0 12.4 5,633.4 59.8 6.9 178,296.0 6.7 368.0 298.5 712.1 307.3				
		TEA, GREEN WINE, RED	55.2 44.9	352.5	26	13.557	**			TEA, GREEN WHISKEY WINE, WHITE YOGURT	119.6 2,271.7 789.4 6,665.4				
1-HEXADECANOL	2554	MANGO WHISKEY	9.4 815.6	825.0	.9	916.666	**	2-HEXENAL	2560	APPLE APPLE JUICE	900.7 221.5	1,329,771.5	5,390	246.707	++
GAMMA HEXALACTONE	2556	APPLE JUICE BEER MANGO FORK RASPBERRY STRAWBERRY	23.9 432.4 1.8 335.8 25.5 9.2	828.6	104	7.967	+			APOCADO BANANA BEER BUTTER CUCUMBERS FISH GRAPE, CONCORD	9.0 110,262.0 108.1 46.0 1,631.9 .5				
HEXANAL	2557	APPLE APPLE JUICE AVOCADO EAMANA BEANS BREAD, WHITE BUTTER CARROT CHICKEN, HEATED COCONUT COFFEE ROASTED CRAMBERRIES	55.9 294.4 8.5 11,730.0 68.1 61,866.1 92.0 192.7 5,306.3 4.1 557.8 4.6						\$	GRAPEFRUIT JUICE OLIVE OIL FEANUT OIL FEANUT, ROASTED FORK FOTATO CHIPS HASPEERY RICE COOKED STRAMBERRY TEA, BLACK TEA, GREEN TOMATO	19.3 427.8 3.0 363.6 23.5 17.5 1.4 11.5 2,769.2 1,009.5 1,840.0 35,455.4	155,335.3	1,726	89.998	**
		CUCUMBER FISH GRAPE, CONCORD GRAPE, MUSCAT LENTILS MILK MUSIRFOOM, FRESH	1,631.9 2.8 50.6 18.4 4.8 46.9 29.9					CIS-3-HEXENAL	2561	AVOCADO BANANA KIMIFRUIT MANGO RASPBERRY TOMATO	.2 469.2 .0 36.8 12.9 1,062.6	1 501 7	307	5 152	
		OLIVE OIL ORANCE JUICE PEANUT OIL PEANUT, ROASTED PEAS PORK POTATO CHIPS RASPBERRY RICE COOKED STRAMBERRY TEA, BLACK	855.6 588.8 66.2 356.5 30.4 77.3 153.0 1.4 1,150.0 187.7 2,185.9			ı		2-HEXEN-1-OL	2562	APPLE JUICE BEER BUTTER GRAPE GRAPE, CONCORD ORANGE JUICE STRANBERRY TEA, GREEN	1,358.2 445.3 432.4 46.0 18.4 4.6 18.4 570.4 2,208.0	1,581.7	307	5.152	+



CONSUMPTION RATIO AND FOOD PREDOMINANCE OF FLAVORING MATERIALS (continued)

CONSUMPTION RATIO AND FOOD PREDOMINANCE OF FLAVORING MATERIALS (continued)

								· ·	CONSUMPTION KATTO	AND FOOD PREDOMINANC	E OF FLAVORING H	KIEKIKES (C	ontinuea)		
FLAVORING MATERIAL:	FEMA No.	OCCURRING IN:	ANN CONS KG A	NN CONS KG VIA FOOD	ANN CONS KG AS ADDED FLAV	CONSUMPTION RATIO	FOOD PRE-	FLAVORING MATERIAL:	; FEM.	OCCURRING IN:	ANN CONS KG A				
		TOMATO WINE, RED	2,869.0 17.9						NO.	WINE, RED WINE, WHITE	VIA THIS FD 5,830.5 1,462.8	VIA FOOD	AS ADDED FLAV	RATIO	DOMINANT
				7,988.6	556	14.368	++			wine, while	1,402.0	43,238.2	3,107	13.916	++
3-HEXEN-1-OL	2563	APPLE BEER BLACKBERRY BLUEBERRY CHERRY CRANBERRIES GRAPE GRAPE. MUSCAT	223.6 648.6 2.1 12.7 1.6 18.4 138.0					HEXYL BUTYRATE	2568	APPLE JUICE GPAPE, MUSCAT GRAPE GRAPE, CONCORD STRAWBERRY	2,263.7 25.8 2.1 6,808.0 2.3 20.2	9,122.1	41	222.490	++
		OLIVE OIL	1.2 320.9									,,122.1	41	222.470	•
	'	ORANGE JUICE PEAS RASPBERRY	110.4 21.9 249.3					HEXYL FORMATE	2570	i	12.9	12.9	108	.119	-
		STRAWBERRY TOMATO	38.6 10,661.4	12,448.7	4,847	2.568	+	HEXYL HEXANOATE	2572	APPLE APPLE JUICE GRAPE, MUSCAT STEAWBERRY	2,151.9 3.7 6.4 7.4	2.162.4		14.560	
TRANS-2-HEXENYL ACETATE	2564	APPLE APPLE JUICE	35.4 18.4							1		2,169.4	149	14.560	++
HEXYL ACETATE	2565	MANGO STRAWBERRY APPLE	.2 369.8 6,250.5	423.8	217	1.953	+	HEXYL OCTANOATE	2575	APPLE JUICE GRAPE GRAPE, MUSCAT STRAWBERRY WINE, RED WINE, WHITE	.5 3,979.0 1.8 1.8 2,646.2 717.6				
		APPLE JUICE BANANA	294.4 9.384.0							WINE, WHILE	717.0	7,346.9	4.5	1,632.644	++
		BEER GRAPE GRAPE, MUSCAT	1,189.1 64.4 .7					HEXYL ALCOHOL	2576	APPLE JUICE	7,028.8	7,028.8	3,107	2.262	+
		GRAPEFRUIT JUICE PEACHES RASPBERRY RUM	.9 458.9 7.6 94.3					4-(P-HYDROXYPHENYL)-2-BUTANO	ONE 2588	RASPBERRY	111.3	111.3	5,073	.022	-
		STRAWBERRY TEA, BLACK WINE, RED WINE, WHITE	187.7 113.9 2,242.5 496.8	20,785.7	1,060	19.611	++	INDOLE	2593	BUTTER CAULIFLOWER COFFEE ROASTED OLIVE OIL TEA, GREEN	34.3 7.4 334.7 213.9 1,002.8	1,593.1	235	6.778	
HEXYL ALCOHOL		APPLE BEANS BEER BLACKBERRY BLUEBERRY BUTTER CAULIFLOWER CHERRY CHERRY CHICKEN, HEATED	12,584.7 17.9 6,486.0 17.7 35.4 6.9 7.4 4.8					ALPHA IONONE	2594	ALMOND, ROASTED BLUEBERRY BRANDY, GRAPE CARROT CELERY LEAVES GRAPERRUIT JUICE RASPBERRY TEA, GREEN	70.2 1.6 12.4 1,017.1 154.6 .2 33.1	1,,,,,,	255	0.770	
		CRANBERRIES	.7 13.8					1		IER, GREEN	12010	1,418.0	1,970	.719	-
		GRAPE GRAPE, CONCORD GRAPE, MUSCAT GRAPERPRUIT JUICE LENTILS MUSHROOM, DRIED MUSHROOM, FRESH ORANGE JUICE PEANUT, ROASTED PLAS RASPBERRY	1,504.2 112.7 19.6 5.5 3.2 .0 87.6 92.0 5.8 12.9					BETA IONONE	2595	ALMOND, ROASTED BEEN. BRANDY, GRAPE CARROT MANACO MUSIROOM, FRESH ORANGE JUICE RASPBERRY TEA, GREEN WINNS, WHITE	.0 108.1 24.8 6.903.7 .2 2.1 36.8 34.3 625.6 8.3				·
		RASPERRI RICE COOKED RUM STRAWBERRY TEA, BLACK TEA, GREEN TOMATO WHISKEY	55,9 23.0 235.8 165.6 303.6 3,128.0 10,661.4 352.8			ı		LACTIC ACID	2611		2,702,500.0 4,610,580.0 623.8 1,080,310.0 9,618.6 2,120,508.0	7,743.9	3,230	2.398	+

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			CONSUMPTION RATIO A	ND FOOD PREDOMINANCE	OF FLAVORING M	ATERIALS (co	ontinued)								
FLAVORING MATERIAL:	FEMA NO.	OCCURRING IN:	ANN CONS KG A VIA THIS FD				FOOD PRE- DOMINANT	FLAVORING MATERIAL:	FEMA NO.	OCCURRING IN:			ANN CONS KG AS ADDED FLAV	CONSUMPTION RATIO	FOOD PRE-DOMINANT
		WINE, WHITE	153,594.0 10	,677,734.4	1,395,240	7.653	+			WINE, RED WINE, WHITE	201.9 44.2	71,619.3	10,353	6.918	+
LAURIC ACID	2614	BEER BUTTER CHEESE, BLUE CHEESE, CHEDDAR CHEESE, SWISS COCONUT GRAPE, CONCORD GRAPEFRUIT JUICE	12,972.0 26,105.0 31,847.0 60,996.0 126,739.2 103.5 62.1 13.8					LINALYL ACETATE	2636	GRAPE GRAPEFRUIT JUICE LEMON OIL ORANGE JUICE RASPBERRY TOMATO	1,518.0 44.2 690.0 18.4 3.2 16,293.2	18,567.0	4,959	3. 745	+
		LAMB MILK PORK RUM STRAWBERRY WHISKEY	244,950.0 251,022.0 3,760,960.0 174.6 12.9 3,609.6	,519,567.7	3,592	1,258.233	++	MALTOL	2656 2665	BUTTER COCOA COFFEE ROASTED PEPPERMINT OIL	2,300.0 140.3 36,253.8 210,680.0	38,694.1	4,524	8. 553	+
LAURIC ALDEHYDE	2615	BEER CARROT	216.2 912.6	, 319, 307.7	3,372	1,230.233	#	MENTHOL	2003	SPEARMINT OIL	460.0	211,140.0	44, 348	4.761	+
		GRAPEFRUIT JUICE LEMON OIL PEANUT OIL	13.8 127.7 3.0					MENTHONE	2667	PEPPERMINT OIL	111,320.0	111,320.0	7,221	15.416	++
		PEANUT, ROASTED TOMATO	25.1 56,672.0	57,970.4	285	203.405	++	METHYL ACETATE	2668	PEPPERMINT OIL	16,100.0	16,100.0	2,092	7.696	+
LAURYL ALCOHOL	2617	WHISKEY	40.9	37,970.4	203	203.403	.,	MENTHYL ISO VALERATE	2669	NUTMEG ;	920.0	920.0	134	6.866	+
				40.9	738	.055	-	P-METHOXYBENZALDEHYDE	2670	CRANBERRIES	77.1				_
D-LIMONENE	2633	CARROT CELERY LEAVES CHICKEN, HEATED COFFEE ROASTED CRANBERRIES GRAPE, MUSCAT GRAPEFRUIT JUICE LEMON OIL	5,879.0 165,379.2 3.5 1,896.4 3.0 1.2 254,320.2 465,750.0					2-METHOXY-4-METHYLPHENOL	2671	BEER COFFEE ROASTED RUM WHISKEY	108.1 111.6 4.8 1.4	225.9		9.036	
		MANGO NUTMEG ORANGE JUICE OREGANO PEACHES PEPPER RASPBERRY TEA, GREEN	736.0 17,250.0 154,560.0 508.3 209.3 234,312.5 2.5 184.0					2-METHOXY-4-VINYLPHENOL	2675 ♣	BEER CAULIFLOWER COFFEE ROASTED GRAPEFRUIT JUICE STRAWBERRY WINE, RED WINE, WHITE	7,567.0 7.4 30,397.5 44.2 12.9 9.0 27.6		; <u>.</u> 4	95,164.000	++
LINALOOL	2635	APPLE JUICE BEER BUTTER CARROT CHICKEN, HEATED COCOA	257.6 7,567.0 4.6 28,970.8 .7 28.1	1, 300,995.1	68,403	19.020	**	METHYL ACETATE	2676	APPLE JUICE SANANA BEER BUTTER GRAPE GRAPE, MUSCAT OLIVE OIL	2.3 30,498.0 432.4 4.6 138,000.0 2.3 70.6				
		CRANBERRIES GRAPE GRAPE, CONCORD GRAPE, MUSCAT GRAPEFRUIT JUICE	10.8 18.4 4.6 18.4 621.0					4'-METHYLACETOPHENONE	2677	CAULIFLOWER MANGO	7.4 7.4			280.748	
		LEMON OIL NUTMEG ORANGE JUICE	1,311.0 12,650.0 8,924.0					METHYL ANISATE	2679	COCOA	33.1	33.	1 4.5	7.356	+
		OREGANO PEPPER RASPBERRY SPEARMINT OIL STRAWBERRY	977.5 3,842.8 28.1 230.0 132.5					METHYL ANTHRANILATE	2682	GRAPE GRAPE, CONCORD STRAWBERRY WINE, RED WINE, WHITE	59,800.0 506.0 7.4 1,390.4 27.6)			
		TEA, BLACK TEA, GREEN	1,138.5 4,636.8					1		WINE, WHILE	27.0	61,731.	4 27,768	2.223	+



	CONSUMPTION RATIO A	IND FOOD PREDOMINANCE	OF FLAVORING M	ATERIALS (c	ontinued)				CONSUMPTION RATIO A	D FOOD PREDOMINANCE	OF FLAVORING MAT	ERIALS (co	ontinued)		
FLAVORING MATERIAL:	FEMA NO.	OCCURRING IN:			ANN CONS KG AS ADDED FLAV		FOOD PRE- DOMINANT	FIAVORING MATERIAL:	FEMA NO.	OCCURRING IN:	ANN CONS KG ANI VIA THIS FD VIA		ANN CONS KG AS ADDED FLAV		FOOD PRE- DOMINANT
METHYL BENZOATE	2683	CRANBERRIES KIWIFRUIT STRAWBERRY	8.5 13.8 3.7	26. 0	4,847	.006	_			COFFEE, ROASTED KIWIFRUIT	780.9 .0	893.1	194	4.603	+
ALPHA METHYLBENZYL ALCOHOL	2685	COCOA	364.8	364.8	208	1.754	+	METHYL HEPTANOATE	2705	BUTTER CHEESE, SWISS CRANBERRIES	18.4 990.2 59.3	1 067 0	1.8	593.277	++
2-METHYLBUTYRALDEHYDE	2691	CHICKEN, HEATED OLIVE OIL PEANUT, ROASTED POTATO CHIPS RUM TEA, BLACK	118.9 579.6 32.2 962.6 590.0 141.5 68.3	2,493.1	67	37.211	**	6-METHYLHEPT-5-ENE-2-ONE	2707	AVOCADO BEER CARROT COCOA LEMON OIL ORANGE JUICE RASPBERRY RICE COOKED	.0 1,081.0 92.5 28.1 13.8 36.8 227.7 11.5	1,067.9	1.0	333.211	·
3-METHYLBUTYRALDEHYDE	2692	AVOCADO BANANA BEEF ROASTED BEER CHICKEN, HEATED CHOCOLATE COCOA COFFEE ROASTED	1.4 398.8 1,284.3 2,162.0 869.4 6,555.0 13,188.2 7,473.9					METHYL HEXAMOATE	2708	APPLE CHEESE, SWISS KIWIFRUIT MAMGO STRAWBERRY	2,833.6 4.6 1,452.2 1.2 .0 406.6	4,325.0 1,864.6		20.718	++
		FILBERTS, ROASTED OLIVE OIL PEACHES PEANUT, ROASTED PORK POTATO CHIPS RICE COOKED RUM	136.6 68.5 40.3 713.0 20.2 437.0 11.5 169.7					METHYL LAURATE	2715	APPLE COCONUT RUM STRAWBERRY	3.7 2.1 9.4 64.4	79.6		24.875	
		TEA, BLACK TOMATO WHISKEY	57.0 8,500.8 2,849.7	44,937.3	548	82.021	++	METHYL MERCAPTAN	2716	CHEESE, CHEDDAR MUSHROOM, DRIED POTATO	14.7 .0 786.6	801.3	13	61.639	++
METHYL BUTYRATE	2693	APPLE JUICE BEEF ROASTED STRAWBERRY	1,843.7 401.4 923.7	,				METHYL O-METHOXYBENZOATE	2717	COCOA	25.3	25.3	344	.074	-
				3,168.8	289	10.965	++	METHYL 3-METHYLTHIOPROPIONA	ATE 2720	PINEAPPLE	4.8	4.8	117	.041	-
METHYL ISO BUTYRATE	2694	APPLE JUICE KIWIPRUIT	772.8	772.8	1,212	.637	-	METHYL 4-METHYLVALERATE	2721	PINEAPPLE	676.2	676.2	.4	1,690.500) ++
2-METHYLBUTYRIC ACID	2695	BEER CHEESE, SWISS COCOA ;	10,810.0 35,975.5 56.1		;			METHYL MYRISTATE	2722	APPLE COCONUT	7.4 2.1	9.	5 597	.016	, <u> </u>
I		CRANBERRÎES RUM STRAWBERRY	54.7 56.6 1,851.0					METHYL NONANOATE	2724	BUTTER	4.6	4.0	6 .1	46.000	· ++
METHYL CINNAMATE	2698	STRAWBERRY	57.0	48,803.9	2,468 3,741	.015	-	METHYL OCTANOATE	2728	APPLE COCONUT PINEAPPLE RUM	3.7 4.1 386.4 9.4				
METHYL CYCLOPENTENOLONE	2700	COFFEE ROASTED	31,791.8	31,791.8	3,719	8.548	+			STRAWBERRY TEA, BLACK	20.2 417.5	841.	3 .4	2,103.25	0 ++
5-METHYLFURFURAL	2702	ALMOND, ROASTED BEER COFFEE ROASTED POTATO CHIPS	701.5 108.1 142,226.3 2.3					4-METHYL-2-PENTANONE	2731	BEER COFFEE ROASTED	2,594.4 7,250.8	9,845.	2 3.2	3,076.62	5 ++
		RUM TEA, GREEN	113.2 340.4	143,491.8	937	153.139	++	METHYL PHENYLACETATE	2733	COCOA	54.7	54.	7 43	1.27	2 +
METHYL 2-FUROATE	2703	ALMOND, ROASTED	112.2	•				METHYL PROPIONATE	2742	KIWIFRUIT	.0				



	CONSUMPTION RATIO A	AND FOOD PREDOMINANC	E OF FLAVORING M	ATERIALS (c	continued)				CONSUMPTION RATIO A	ND FOOD PREDOMINANCE	OF FLAVORING MATERIALS (continued)		
FLAVORING MATERIAL:	FEMA NO.	OCCURRING IN:	ANN CONS KG A	ANN CONS KG VIA FOOD	ANN CONS KG AS ADDED FLAV	CONSUMPTION RATIO	FOOD PRE- DOMINANT	FLAVORING MATERIAL:	FEMA NO.	OCCURRING IN:	ANN CONS KG ANN CONS KO VIA THIS FD VIA FOOD			FOOD PRE- DOMINANT
		RASPBERRY	5.5	5.5	15	.367	-			GRAPE, CONCORD GRAPEFRUIT JUICE	59.8 2.8			
CYCLAMEN ALDEHYDE	2743	NUTMEG	1,380.0	1,380.0	548	2. 518				LAMB HILK	326,600.0 417,588.0			
METHYL SALICYLATE	2745	COFFEE ROASTED GRAPE, CONCORD KIWIFRUIT PEACHES RUM STRAMBERRY TEA, BLACK TEA, GREEN TOMATO	1,561.7 2.3 .0 185.2 14.3 38.6 368.2 110.4	1,300.0	346	2. 516	+	NEROL	2770	NUTMEG PORK RUM STRAWHERRY WHISKEY CRANBERRIES GRAPE, MUSCAT GRAPERUIT JUICE	115.0 9,335,240.0 15.2 77.3 393.5 10,798,307. 15.4 22.1 2.8	1 640	16,872.356	++
METHYL SULFIDE	2746	BEANS BEER CHEESE, SWISS	10.1 2,270.1 66.0	2,493.2	139,977	.018	-			LEMON OIL ORANGE JUICE RASPBERRY TEA, GREEN WINE, WHITE	241.5 165.6 15.4 138.0 2.1	9 489	1.232	+
		CORN, CANNED LENTILS MAIZE MUSHROOM, DRIED ONION ORANGE JUICE PEAS	940.5 2.5 24,570.4 .0 299.0 9.2 119.8					NEROLIOOL	2112	BEER GRAPEPRUIT JUICE ORANGE JUICE STRAWBERRY TEA, GREEN	1,189.1 11.0 55.2 386.4 1,030.4		50.419	++
		RUM TEA, BLACK TOMATO WINE, RED WINE, WHITE	9.4 5.8 29,044.4 13.6 55.2	57,416.●	2,092	27.446	++	NERYL ACETATE	2773	GRAPE, MUSCAT GRAPEFRUIT JUICE LEMON OIL ORANGE JUICE	31.7 2.3 3,105.0 73.6	.6 276	11.640	++
3-(METHYLTHIO) PROPIONALDEH	YDE 2747	CHEESE, CHEDDAR CHICKEN, HEATED POTATO CHIPS TOMATO	89.7 17.5 174.8 354.2					2,6-NONADIEN-1-OL	2780		49.5 49	. 5 54	. 91 7	-
		WHISKEY	.5	636.7	108	5.897	+	GAMMA NONALACTONE	2781	BEER, HEATED BEER BRANDY, GRAPE	561.9 6,486.0 4.4			
METHYL VALERATE METHYL ISO VALERATE	2752 2753	PINEAPPLE PEACHES	241.5	241.5	1.3	185.769	++		£	BUTTER MANGO PORK	92.0 1.4 1,343.2			
REIRIL ISO VALERAIE	2/53	PEACHES PINEAPPLE	193.2 289.8	483.0	593	.815	-			RUM TEA, GREEN WINE, WHITE	2.8 36.8 8.3		2.74	4 +
MYRCENE	2762	CARROT COCOA COFFEE ROASTED GRAPE LEMON OIL MUTHEG ORANGE JUICE OREGANO PEPPER TEA, BLACK	1,849.2 2.8 747.5 561.2 10,005.0 6,440.0 220.8 1,955.0 44,988.0 72.2	66,841.7	258	259.076	++	NONANAL	2782	AVÓCADO BEIER BREAD, WHITE BUTTER CARROT CAULIFLOWER CHICKEN, HEATED GRÁPE, CONCORD GRÁPERRUIT JUICE LEMON OIL	8,537 216.2 180,655.8 13.8 2,391.5 73.6 1,478.0 4.6 11.0 1,242.0	7.5 3,112	2.744	
MYRISTALDENYDE	2763	CHICKEN, HEATED PEANUT OIL	405.7 10.1	415.8	742	. 561		,		MILK OLIVE OIL ORANGE JUICE	2.3 429.0 92.0 26.5			
MYRISTIC ACID	2764	BEER CHEESE, BLUE CHEESE, CHEDDAR CHEESE, SWISS CHICKEN, HEATED COCONUT	27,565.5 117,658.8 109,882.5 403,981.2 59,119.2 8.3	415.0	176	. 301	-			PÉANUT OIL PEANUT, ROASTED POTATO CHIPS RICE COOKED TEA, GREEN TOMATO	26.5 320.9 8.7 34.5 119.6 10,626.0	6.2 104	1,901.40	08 ++
			3.3					NONANOIC ACID	278	BEER COFFEE ROASTED	6,486.0 12,828.3			



	CONSUMPTION RATIO A	AND FOOD PREDOMINANCE	OF FLAVORING MA	TERIALS (co	ontinued)				CONSUMPTION RATIO AL	ND FOOD PREDOMINANCE	OF FLAVORING MA	TERIALS (co	ontinued)		
FLAVORING MATERIAL:	FEMA NO.	OCCURRING IN:	ANN CONS KG AN				FOOD PRE- DOMINANT	FIAVORING MATERIAL:	FEMA NO.	OCCURRING IN:	ANN CONS KG A	NN CONS KG VIA FOOD	ANN CONS KG AS ADDED FLAV	CONSUMPTION RATIO	FOOD PRE- DOMINANT
		GRAPE, CONCORD GRAPEFRUIT JUICE MUSHROOMS, DRIED RASPBERRY RUM TEA, GREEN	9.2 5.5 1.4 3.5 5.8 128.8					OCTANOIC ACID	2799	POTATO CHIPS RICE COOKED APPLE BEER	8.7 23.0 745.2 183,770.0	8,361.8	973	8.594	+
		WHISKEY	181.9	19,650.4	158	124.370	++			BUTTER CHRESE, BLUE CHRESE, CHEDDAR	2,967.0 15,814.8 26,461.5				
2-NONANONE	2785	BEER BUTTER CHEESE, BLUE CHEESE, CHEDDAR COCOA COCONUT MILK PEANUT OIL PEANUT, ROASTED POTATO CHIPS RASPBERY RICE COOKED STRAWBERRY	648.6 577.3 918.2 852.2 28.1 3.022.2 234.6 3.2 17.9 4.4 1.4 11.5	6,330.6	421	15.037	++			CHEESE, SWISS COCONUIT COTTEE ROASTED GRAPE GRAPE, CONCORD GRAPEFRUIT JUICE HILK MUSHROOM, DRIED PONK RUM STRAWBERRY TEA, GREEN WHISKEY WHINE, WHITE	264.0 12.4 4,741.0 50.6 4.6 8.3 270,963.0 1.2 386,170.0 377.2 12.9 73.6 6,377.9 2,893.9				
NONYL ACETATE	2788	BEER	108.1							YOGURT	3,670.8	905,379.9	3,556	254.605	++
		GRAPE GRAPE, MUSCAT GRAPEFRUIT JUICE LEMON OIL	92.0 1.2 5.5 75.9	282.7	45	6.282	ı +	1-OCTANOL	2800	APPLE APPLE JUICE ASPARAGUS, COOKED BRANDY, GRAPE	106.3 1,216.2 5.1 28.1	I			
NONYL ALCOHOL	2789	APPLE JUICE CAULIFLOWER GRAPE GRAPE, MUSCAT GRAPEFRUIT JUICE MUSHROOM, PRESH ORANGE JUICE PEANUT, ROASTED RASPERRY STRAWBERRY TEA, GREEN	441.6 14.7 188.6 1.8 2.5 .2 11.3 73.6 1.2 1.4 1.8	849.1	13	65.314	++			BUTTER CAULIFLOWER CHICKEN, HEATED CRANBERRIES GRAPEBRIES GRAPEFRUIT JUICE LEMON OIL MUSIROOM, DRIED MUSIROOM, PRESH ORANGE JUICE RASPBERRY STRAWBERRY TEA, BLACK TEA, GREEN	115.0 14.7 88.3 6.2 73.6 22.1 138.0 1.4 570.4 20.2 417.5 386.4 61.2	i			
GAMMA OCTALACTONE	2796	BEER BRANDY, GRAPE BUTTER	540.5 12.4 230.0							WHISKEY WINE, RED WINE, WHITE	287.0 96.6	3,708.1	191	19.414	++
		CHICKEN, HEATED HANGO PEACHES PORK RASPBERRY	405.7 9.2 531.3 2,686.4 17.0					2-OCTANOL	2801	BEER WINE, RED	108.1 26.9	1.35.0	.4	337.500	++
		STRAWBERRY	5.5	4,438.0	770	5.764	+	2-OCTANONE	2802	BANANA BRER BUTTER	18,768.0 432.4 49.0				
OCTANAL	2797	AVOCADO BEER BUTTER CARROT CHICKEN, HEATED COCONUT CRANBERRIES GRAPEPRUIT JUICE	.2 4,324.0 36.8 154.1 1,228.7 2.1 10.1 46.9							COCOA MILK OLIVE OIL PEANUT OIL PEANUT, ROASTED POTATO CHIPS RICE COOKED	28.1 2.3 12.9 1.6 25.1 8.7	19,339.	6 847	22.834	· ++
		LEMON OIL MILK OLIVE OIL	655.5 4.6 1,069.5					3-OCTANONE	2803	MUSHROOM, FRESH	932.7	932.	7 28	33.311	. ++
		ORANGE JUICE PEANUT OIL PEANUI, ROASTED	570.4 13.3 213.9					1-OCTEN-3-OL	2805	BEF:R BUTTER	648.6 11.5				



	CONSUMPTION RATIO A	AND FOOD PREDOMINANCE	OF FLAVORING MATE	iRIALS (con	itinued)				CONSUMPTION RATIO AN	D FOOD PREDOMINANCE	OF FLAVORING MAT	TERIALS (co	ntinued)		ľ
FLAVORING MATERIAL:	FEMA NO.	OCCURRING IN:	ANN CONS KG ANN VIA THIS FD VIA				FOOD PRE-	FLAVORING MATERIAL:	FEMA NO.	OCCURRING IN;	ANN CONS KG AN VIA THIS FD V	IN CONS KG	ANN CONS KG AS ADDED PLAV	CONSUMPTION RATIO	FOOD PRE- DOMINANT
		CHICKEN, HEATED GRAPE MUSHROOM, DRIED MUSHROOM, FRESH OLIVE OIL RICE COOKED STRAMBERRY TEA, GREEN	440.5 138.0 .5 11,048.1 2,352.9 11.5 9.2 18.4	14,679.2	144	101.939	++			COFFEE ROASTED LENTILS MILK OLIVE OIL PEANUT OIL PEANUT, ROASTED PEAS POTATO CHIPS RUM	5,019.8 2.3 591.1 10.8 2.1 14.3 53.1 30.6 113.2				
OCTYL ACETATE	2806	APPLE APPLE JUICE	55.9 1.2							STRAWBERRY		43,392.2	330	131.491	++
		BEER GRAPE GRAPE, MUSCAT GRAPEFRUIT JUICE LEMON OIL STRAWBERRY	432.4 786.6 .9 22.1 144.9 16.6	1,460.6	249	5.867	+	ALPHA PHELLANDRENE	2856	CARROT LEMON OIL MANGO NUTHEG OREGANO PEPPER	250.5 828.0 5.5 2,300.0 234.6 129,715.4	133,334.0	842	158.355	++
OCTYL BUTYRATE	2807	STRAWBERRY	12.9	12.9	11	1.173	+	PHENETHYL ACETATE	2857	APPLE BEER COCOA	3.7 19,458.0 280.6				
OLEIC ACID	2815	CHEESE, BLUE CHEESE, CHEDDAR CHEESE, SWISS GRAPE, CONCORD HAZELNUT LAHB MILK PORK	2,486.3 238,236.3 418,899.0 788,489.5 115.0 21,902.0 311,903.0 1,292,646.0 7,540,320.0							GRAPE GRAPE, CONCORD GRAPE, MUSCAT RUM STRAWBERRY WHISKEY WINE, RED WINE, WHITE	1,380.0 2.3 1.2 94.3 75.4 2,632.6 3,588.0 2,553.0	30,069.1	104	289.126	6 ++
		MHISKEA Enw	5.3 162.8	615,165.2	1,074	9,883.767	++	PHENETHYL ALCOHOL	2858	APPLE APPLE JUICE BEER	110.9 1,840.0 624,818.0				
PALMITIC ACID	2832	BEER CHEESE, BLUE CHEESE, CHEDDAR CHEESE, SHISS CHICKEN, HEATED COCOA GRAPE, CONCORD GRAPEFRUIT JUICE HAZELNUT LAMB MILK RUM STRAMBERRY WHISKEY	6,486.0 260,364.6 274,930.5 1,213,923.9 489,762.0 140.3 211.6 30.4 1,384.1 1,589,725.5 1,257,456.0 28.3 371.7 583.5	095,398.4	1,073	4,748.740	++		æ	CHICKEN, HEATED COCOA COFFEE ROASTED CRANBERRIES GRAPE, CONCORD GRAPE, MUSCAT MUSHROOM, FRESH OLIVE OLL ORANGE JUICE RASPBERRY RUM STRAWBERRY TEA, BLACK TEA, GREEN WHISKEY	310.3 364.8 4,015.8 37.0 3,341.0 158.7 4.1 12.9 427.8 36.8 83.5 47.2 5.5 751.4 1,499.6 5,380.6				
2,3-PENTANEDIONE	2841	BRANDY, GRAPE BUTTER	2,270.1 .5 11.5							WINE, RED WINE, WHITE	25,116.0 27,434.4		.3 638	1,090.59	92 ++
•		COFFEE ROASTED RUM WHISKEY	4,462.0 30.6 5.5					PHENETHYL BUTYRATE	2861	BRANDY, GRAPE	1.2	1.	. 2 185	.00)6 -
		WINE, RED WINE, WHITE	448.5 15.2	7,243.9	783	9.252	+	PHENETHYL FORMATE	2864	WHISKEY	13.6	13.	.6 .	4 34.00	00 ++
2-PENTANONE	2842	BANANA BEANS	18.4 33,665.1 73.4					PHENETHYL PROPIONATE	2867		216.2	216	.2 38	5.68	89 +
		BEER BUTTER CARROT	432.4 250.7 115.7					PHENETHYL ISO VALERATE			432.4	432	.4 72	6,00	006 +
		CHEESE, BLUE CHEESE, CHEDDAR CHEESE, SWISS	425.3 1,152.8 1,419.3					2-PHENYLACETALDEHYDE	2874	BEANS BEER	108.1				



CONSUMPTION RATIO AND FOOD PREDOMINANCE OF FLAVORING MATERIALS (continued)

	CONSUMPTION RATIO A	ND FOOD PREDOMINANCE	OF FLAVORING M	ATERIALS (co	ontinued)				CONSUMPTION RATIO AN	D FOOD PREDOMINANCE	OF FLAVORING AD	TERIALS (CO	ont inded)		
FLAVORING MATERIAL:	FEMA NO.	OCCURRING IN:			ANN CONS KG AS ADDED FLAV		FOOD PRE- DOMINANT	FLAVORING MATERIAL:	FEMA NO.	OCCURRING IN:	ANN CONS KG A VIA THIS FD 325.7	NN CONS KG VIA FOOD	ANN CONS KG AS ADDED FLAV	CONSUMPTION RATIO	FOOD PRE- DOMINANT
		BREAD, WHITE COCOA GRAPEFRUIT JUICE MUSHROCM, FRESH	6,533.2 1,501.2 5.5 42.8							WINE, RED WINE, WHITE	2,511.6 138.0	116,877.7	253	461.966	++
		PEANUT, ROASTED PEAS POTATO CHIPS RICE CCOKED TEA, BLACK TOMATO WINE, WHITE	2.1 15.6 1,573.2 11.5 148.1 708.4 33.1	10,687.9	308	34.702	**	PROPIONIC ACID	2924	BEER CHEESE, BLUE CHEESE, CHEDDAR CHEESE, SWISS COFFEE ROASTED FISH MILK MUSHROOM, DRIED RUM	44,321.0 62.1 418,002.0 1,511,801.5 97,829.4 4,749.5 28,152.0 4.1 292.3				
PHENYLACETIC ACID	2878	COCOA BUTTER WINE, WHITE	7.1 276.0	283.1	579	.489	-			STRAWBERRY WHISKEY WINE, WHITE YOGURT	9.2 860.4 469.2 2,359.8				
3-PHENYLPROPYL ACETATE	2890	COCOA	140.3	140.3	154	.911	-					2,108,912.5	7,338	287.396	++
ALPHA PINENE	2902	CARROT CELERY LEAVES CRANBERRIES LEMON OIL MANGO NUTWEG ORANGE JUICE OREGANO	2,369.2 850.1 .7 14,490.0 2,060.8 65,550.0 202.4 625.6					PROPYL ACETATE	2925	APPLE JUICE BEER GRAPE GRAPE, MUSCAT RUM STRAWBERRY TOMATO WINE, TABLE	114.1 118.9 202.4 2.3 47.2 47.2 1.8 4.250.4		1,032	4.978	
		PEANUT, ROASTED PEPPER STRAWBERRY	3.2 103,097.5 3.7	189,253.2	10,419	18.163	++	PROPYL ALCOHOL	2928	APPLE APPLE JUICE	4,843.8 5,740.8	5,136.2	1,032	4.978	•
BETA PINENE	2903	CARROT LEMON OIL NUTMEG ORANGE JUICE OREGANO PEPPER	1,579.6 69,000.0 35,650.0 36.8 156.4 168,705.0	ı						BEANS BEER BREAD, WHITE BUTTER CHEESE, CHEDDAR CHEESE, SWISS GRAPE	9.2 529,690.0 9,657.7 13.8 5,157.8 1,617.4 7,958.0	:			
PIPERIDINE	2908	COFFEE ROASTED	1,115.5	1,115.5	10,192 86	26.995 12.971	++			LENTILS MUSHROOM, DRIED PEAS RUM	7.8 .0 62.6 151,233.7				
PIPERINE	2909	PEPPER	1,762,030.0	1,762,030.0	.0	>999,999	++			TEA, BLACK TOMATO WHISKEY WINE, RED	607.2 12,751.2 52,923.0 25,564.5	:			
D-PIPERITONE	2910	PEPPERMINT OIL RASPBERRY	2,300.0 7.8			'				WINE, WHITE	7,907.4	815,745.	534	1,527.617	**
PROPIONALDEHYDE	2923	APPLE JUICE BEER , BREAD, WHITE BUTTER	33.6 11.0 12,972.0 88,453.2 66.0	2,307.8	5.0	461.560	++	ISO PROPYL ALCOHOL	2929	APPLE BEANS BEER LENTILS PEAS RASPBERRY	242.2 217.6 43,240.0 .0 4.6 20.2	:			
		CARROT CHEESE, CHEDDAR CUCUMBER	38.6 2,332.2 1,087.9							TOMATO	6,375.6	50,100.	2 72,118	.694	-
		FISH GRAPE, MUSCAT MILK	1,628.4 18.4 21.2					PROPYL BUTYRATE	2934	APPLE JUICE RUM	22.1	:24.	9 308	.081	ı -
		PEANUT OIL PEANUT, ROASTED PORK	1.2 60.7 45.3					ISO PROPYL BUTYRATE	2935	STRAWBERRY	20.2	20.	2 .4	50.500	0 ++
		RICE COOKED RUM : STRAWBERRY TEA, BLACK TOMATO	34.5 .9 1.8 11.5 7,084.0					PROPYL HEXANOATE	2949	APPLE JUICE	7.4	7.	4 6.8	3 1.088	8 +



CONSUMPTION R	RATIO AND FOOD	PREDOMINANCE O	OF FLAVORING	MATERIALS	(continued)
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CONSUMPTION RATIO AND FOOD PREDOMINANCE OF FLAVORING MATERIALS (continued)

FLAVORING MATERIAL:	FEMA NO.	OCCURRING IN:	ANN CONS KG ANN CONS KO VIA THIS FD VIA FOOD		CONSUMPTION RATIO	FOOD PRE- DOMINANT	FLAVORING MATERIAL:	FEMA NO.	OCCURRING IN:	ANN CONS KG ANN C VIA THIS FD VIA			FOOD PRE- DOMINANT
PROPYL PROPIONATE	2958 ;	APPLE JUICE RUM	4.4 18.9	131	.178	-	TERPINOLENE	3046	CARROT LEMON OIL NUTMEG ORANGE JUICE	8,437.1 4,485.0 3,450.0 18.4			
PULEGONE	2963	PEPPERMINT OIL	4,600.0 4,600.0	15	306.667	++			OREGANO PEPPER RASPBERRY	156.4 8,622.7 50.6	,220.2 674	37.418	++
PYRIDINE	2966	BEEF ROASTED CHICKEN, HEATED COCOA COFFEE ROASTED	802.7 11.5 8,698.6 47,966.5				TERPINYL ACETATE	3047	GRAPEFRUIT JUICE TEA, GREEN	5.5 55.2	60.7 2,020	.030	-
		MUSHROOM, DRIED	.9 57,480.2	95	605.054	++	THYMOL	3066	OREGANO	25,766.9	,766.9 135	190.866	++
PYRUVALDEHYDE	2969		3,096.3	10.9	284.064	++	P-TOLYL ACETALDEHYDE	3071	BEER RUM	108.1 957.3			
PYRUVIC ACID	2970	BEER CHEESE, CHEDDAR WINE, TABLE	3,859,170.0 32,292.0 11,730.0						WHISKEY		,648.9 18	91.606	++
SALICYI A LDEHYDE	3004	BREAD, WHITE	3,903,192.0 66,467.7	3,007	1,298.035	++	GAMMA UNDECALACTONE	3091	BUTTER	57.5	57.5 3,089	.019	-
	:	GRAPE, MUSCAT WHISKEY	2.3 .2 66,470.2	358	185.671	++	UNDECANAL	3092	BUTTER CARROT CHICKEN, HEATED GRAPEFRUIT JUICE	36.8 11.5 3.0 8.3			
SKATOLE	3019	BUTTER COFFEE ROASTED TEA, GREEN	75.4 1,896.4 18.4 1,990.2	.4	4,975.500	++			LEMON OIL MILK PEANUT OIL PEANUT, ROASTED	483.0 4.6 1.4 249.6	798.2 21	38.010	++
STEARIC ACID	3035	BEER CHEESE, BLUE CHEESE, CHEDDAR CHEESE, SWISS GRAPE, CONCORD GRAPEFRUIT JUICE LAMB MILK PORK RUM	6,486.0 81,237.2 154,284.0 1,030,416.1 207.0 11.0 941,097.9 572,424.0 21,558,360.0 3.2 24,344,526.4	79,728	305.345	#	2-UNDECANONE	3093	BEER BUTTER CHEESE, BLUE CHEESE, CHEDDAR COCONUT GRAPEFRUIT JUICE MILK PEANUT OIL PEANUT, ROASTED STRAMBERRY	108.1 777.4 310.5 762.5 12,006.0 703.8 7.4 25.1 3.7		93.24) ++
ALPHA TERPINEOL	3045	APPLE APPLE JUICE BEER BRANDY, GRAPE CARROT CELERY LEAVES CHICKEN, HEATED CRANBERRIES GRAPE, MUSCAT GRAPERRUIT JUICE LEMON OIL MANGO NUTHEG ORANGE JUICE OREGANO PEPFERMINT OIL POTATO CHIPS RASPBERRY SPEARMINT OIL STEÄMBERRY TEA, BLACK	139.8 8.7 1,297.2 34.3 1,109.5 77.3 5.3 220.3 6.7 873.5 2,035.5 128.8 9,200.0 901.6 3,440.8 460.0 26.2 50.6 460.0 16.6 117.8				VALERALDEHYDE	3098 3098 3101	APPLE JUICE AVOCADO BREAD, WHITE BUTTER CARROT CHICKEN, HEATED COCOA COCOAUT CRANBERRIES FISH MILK OLIVE OIL PEANUT OIL PEANUT OIL PEANUT OIL PEANUT OIL PEANUT CHIPS RICE, COOKED STRAMBERRY	1,510.6 4.1 6,817.2 147.2 115.7 1,854.7 112.2 2.1 1.8 542.8 7.1 4.4 9.9 178.3 24.2 115.0 3.7	4,704.7 181 11,451.0 8		
		TEA, GREEN WINE, RED WINE, WHITE	699.2 89.7 51.1 21,450.	5 13,046	1.645	+			BEER BRANDY, GRAPE CHEESE, CHEDDAR CHEESE, SWISS	2,486.3 93.2 3,318.9 37,625.7			



	CONSUMPTION RATIO	AND FOOD PREDOMINANCE	E OF FLAVORING M	ATERIALS (co	ontinued)	1	,	CONSUMPTIO	ON RATIO A	ND FOOD PREDOMINANCE	OF FLAVORING MATER	RIALS (co	ontinued)		
FLAVORING MATERIAL:	FEMA NO.	OCCURRING IN:		NN CONS KG VIA FOOD	ANN CONS KG AS ADDED FLAV	CONSUMPTION RATIO	FOOD PRE- DOMINANT	FLAVORING MATERIAL:	FEMA NO.	OCCURRING IN:	ANN CONS KG ANN VIA THIS FD VIA			CONSUMPTION RATIO	FOOD PRE- DOMINANT
		MILK MUSHROOM, DRIED PORK	95,013.0 .5 184,690.0					P-ALPHA DIMETHYLSTYRENE	3144	GRAPEFRUIT JUICE	8.3	8.3	1.3	6.385	+
		RUM STRAWBERRY WHISKEY YOGURT	707.3 294.4 135.7 2,415.0					ETHYL T-2-C-4-DECADIENOATE	3148	BEER GRAPE, CONCORD	432.4 23.0	455.4	4.5	101.200	++
				327,184.8	4,493	72.821	**	2-ETHYL-3,5 OR 6-DIMETHYLPYRAZINE	3149	ALMOND, ROASTED BEEF ROASTED	2,104.5 963.2				
ISO VALERIC ACID	3102	BREAD, WHITE CHEESE, BLUE CHEESE, CHEDDAR CHEESE, SWISS COCOA MILK MUSHROOM, DRIED RASPBERRY RUM	42,159.0 24,428.3 1,179.9 269.1 8,911.4 84.2 79,764.0 12.0 3.5							BEER CHICKEN, HEATED COCCOA COFFEE, ROASTED PEANUT, ROASTED POTATO CHIPS RUM TEA, GREEN	432.4 58.0 420.9 2,454.1 3.2 590.0 18.9 36.8	7,082.0	11	643.818	++
		WHISKEY WINE, WHITE YOGURT	1,484.7 236.0 2,263.2	160,833.0	607	264.965	++	3-ETHYL-2,6-DIMETHYLPYRAZINE	3150	ALMOND, ROASTED COCOA COFFEE ROASTED PEANUT, ROASTED	70.2 280.6 8,924.0 43.2				
GAMMA VALEROLACTONE	3103	BEER PEACHES	34,592.0 362.3	34,954.3	81	431.535	++			POTATO CHIPS RUM	327.8 9.4	9,655.2	5.4	1,788.001	++
VANILLIN	3107	BEER	108.1					2-ETHYL-1-HEXANOL	3151	BRANDY, GRAPE BUTTER	2.5 46.0				
1		BRANDY, GRAPE COFFEE ROASTED RUM	105.6 2,788.8 464,4					:		WINE, RED	71.8	120.3	81	1.485	+
I		STRAWBERRY VANILLA WHISKEY	14.7 16,261.9 331.2	20,074.7	475,650	.042	_	2-ETHYL-5-METHYLPYRAZINE	3154	BEEF ROASTED CHICKEN, HEATED COCOA COFFEE ROASTED	561.9 34.7 77.3 3,179.3				
ZINGÉRONE	3124	RASPBERRY	20.2	20.2	312	.065	_			PEANUT, ROASTED POTATO CHIPS TEA, GREEN	396.5 524.4 18.4				
ACETYLPYRAZINE	3126	ALMOND, ROASTED BREAD, DARK COFFEE ROASTED	420.9 10.6 1,450.2					3-ETHYL-2-METHYLPYRAZINE	3155	BREAD, DARK	11.7	4,792.5	3.6	1,331.250	++
				1,881.7	58	32.443	++			BREAD, WHITE COCOA COFFEE ROASTED	1,647.5 477.0 15,617.0				
BIPHENYL	3129	CARROT	400.7	400.7	235	1.705	+			PEANUT, ROASTED POTATO CHIPS	155.0 142.1 23.7				
2-ISOBUTYL-3-METHOXY PYRAZI	INE 3132	PEPPER, BELL	110.4	110.4	13	8.492	+	'		RUM		18,074.0	72	251.029	++
2-ISOBUTYL-3-METHYLPYRAZINE	3133	POTATO CHIPS POTATO, BAKED	35.0 131.1	166.1	5.4	30.759	++	P-ETHYLPHENOL	3156	BEER OLIVE OIL RUM WHISKEY	1,081.0 8,128.2 75.4 53.1				
2-ISOBUTYLTHIAZOLE	3134	TOMATO	705.0	705.0	249	2.831	+	·		WINE, RED	897.0	10,234.7	99	103.381	++
2,4-DECADIENAL	3135	ALMOND, ROASTED BEEF ROASTED CARROT	70.2 80.3 3.0					FURFURYL METHYL ETHER	3159	ALMOND, ROASTED COFFEE ROASTED	2,525.4 557.8	3,083.2		30,832.000	, ++
		CHICKEN, HEATED GRAPEFRUIT JUICE OLIVE OIL ORANGE JUICE	811.4 .0 1,711.2 184.0					FURFURYL METHYL SULFIDE	3160	COFFEE ROASTED	1,840.7 481.6	1,840.7	1.3	1,415.923	· ++
		PEANUT, ROASTED POTATO CHIPS RICE COOKED	142.6 677.4 23.0					2-FURYL METHYL KETONE	3163	BEEF ROASTED BEER CHICKEN, HEATED COCOA	1,945.8 5.8 28.1				
3,4-DIMETHOXY-1-VINYLBENZER	NE 3138	COFFEE ROASTED	3,346.5	3,703.1	.1	68.576 33,465.000	++			COFFEE ROASTED POTATO CHIPS	23,090.9 43.7				



CON	SUMPTION RATIO A	ND FOOD PREDOMINANCE	OF FLAVORING	ATERIALS (c	ontinued)			CONSUMP	PTION RATIO AN	D FOOD PREDOMINANCE	OF FLAVORING N	MATERIALS (c	ontinued)		
FLAVORING MATERIAL:	FEMA NO.	OCCURRING IN:			ANN CONS KG AS ADDED FLAV		FOOD PRE- DOMINANT	FLAVORING MATERIAL:	FEMA NO.	OCCURRING IN:	ANN CONS KG VIA THIS FD	ANN CONS KG VIA FOOD	ANN CONS KG AS ADDED FLAV	CONSUMPTION RATIO	FOOD PRE- DOMINANT
		RUM TEA, GREEN WINE, RED	113.2 1,122.4 44.9			ı	•	2-METHYL-2-PENTENAL	3194	ONIONS	855.1	855.1	6.8	125.750	++
2,4-HEPTADIENAL	3164	AVOCADO	.0	26,876.4	294	91.417	++ '	JASMONE	3196	BEER TEA, GREEN	216.2 754.4	970.6	38	25.542	++
1		CAULIFLOWER CHICKEN, HEATED FISH	11.0 .7 1.2					5-METHYL-2-PHENYL-2-HEXENAL	3199	COCOA	206.3	206.3	45	4.584	+
		OLIVE OIL PEANUT OIL PEANUT, ROASTED	855.6 .0 3.2	871.7	11	30.046		METHYL PROPYL DISULFIDE	3201	ONIONS	13,156.0	13,156.0	81	162.420	++
TRANS-2-HEPTENAL	3165	AVOCADO CHICKEN, HEATED OLIVE OIL PEANUT OIL POTATO CHIPS	.5 753.5 6,630.9 8.5 174.8	0,11,		79.246	++	METHYL 2-PYRROLYL KETONE	3202	ALMOND, ROASTED BEEF ROASTED BEER COFFEE ROASTED POTATO CHIPS TEA, GREEN	70.2 2,809.5 30,268.0 12,159.0 56.8 220.8				
I		RICE COOKED	46.0	7,614.2	33	230.733	++			IEA, GREEN	220.8	45,584.3	.2	227,921.500	++
NOOTKATONE	3166	GRAPEFRUIT JUICE LEMON OIL	979.8 34.5	.,,,,,,,,	,,,	230.733	•	5-METHYL QUINOXALINE	3203	ALMONDS, ROASTED	140.3	140.3	2.7	51.963	++
		ORANGE JUICE	36.8	1,051.1	43	24.444	++	2-METHYLTHIOACETALDEHYDE	3206	POTATO CHIPS	8.7	8.	2.7	3.222	+
DELTA HEXALACTONE	3167	BUTTER COCONUT RASPBERRY	46.0 828.0 40.5					2-METHYL-5-VINYLPYRAZINE	3211	COFFEE ROASTED	3,235.0	3,235.0	2.3	1,406.522	++
		STRAWBERRY TEA, GREEN	12.9 36.8	964.2	4 2	22.956	++	2,4-NONADIENAL	3212	AVOCADO CHICKEN, HEATED CRANBERRIES PEANUT, ROASTED	.2 1.2 3.0 35.7				
3 HEXENOIC ACID CIS-3-HEXENYL ACETATE	3170	COCOA BUTTER APPLE JUICE	8.1	1.2	9.0	.133	-			POTATO CHIPS POTATO, BAKED	17.5 131.1		7 21	9.011	+
,		CELERY LEAVES MANGO STRAWBERRY TEA, BLACK	30.8 12.9 11.0 30.4	93.2	240	0.388		2-NONENAL	3213	CARROT CHICKEN, HEATED CUCUMBERS PEANUT OIL PEANUT, ROASTED	2,592.8 344.8 2,175.8 6.7 213.9	3 3 7			
HEXYL ISO BUTY RATE	3172	APPLE GRAPE, MUSCAT	113.6 2.1	115.7	17	6.806	•	4	!	POTATO CHIPS RICE COOKED	67.9	•	4 18	300.744	++
4-HYDROXY-2,5-DIMETHYL-3(2H)-FU	JRANONE 3174	COFFEE ROASTED PINEAPPLE	41,831.3 2,656.5	22311	1,	0.000	·	DELTA OCTALACTONE	3214	BUTTER COCONUT RASPBERRY	616.4 1,057.8 50.0	3			
4		RASPBERRY STRAWBERRY	5.1 1,107.7	45,600.6	2,718	16.777	**			RUM STRAWBERRY WINE, WHITE	12. 1.	9 6	2 49	35.515	
GAMMA IONONE	3175	TOMATO	106.3	106.3	81	1.312	+	2-OCTENAL	3215	AVOCADO			,2 49	33.31.	, +1
P-MENTH-1-ENE-9-AL	3178	GRAPEFRUIT JUICE	5.8	5.8	.2	29.000	++			CHICKEN, HEATED CRANBERRIES MUSHROOM, FRESH	568. 15. 193.	4 7			
P-MENTH-1-EN-3-OL	3179	NUTME G	1,150.0	1,150.0	.1	11,500.000	++			OLIVE OIL PEANUT, ROASTED POTATO CHIPS POTATO, BAKED	213. 107. 46. 524.	0 0			
1-METHYL-2-ACETYLPYRROLE	3184	COFFEE, ROASTED	5,633.4	5,633.4	.1	56,334.000	++			RICE COOKED TOMATO	23. 354.	0	.9 389	5.26	0 +
1-METHYL NAPHTHALENE	3193	BEANS LENTILS OLIVE OIL	2.1 1.4 213.9					2,4-PENTADIENAL	3217	PEANUTS, ROASTED	3.	.7	.7	9 4.11	1 +



CONSUMPTION RATIO AND	FOOD PREDOMINANCE OF	FLAVORING MATERIALS	(continued)	1

CONSUMPTION RATIO AND FOOD PREDOMINANCE OF FLAVORING MATERIALS (continued

FLAVORING MATERIAL:	FEMA NO.	OCCURRING IN:	ANN CONS KG AN VIA THIS FD V				FOOD PRE- DOMINANT	FLAVORING MATERIAL:	FEMA NO.	OCCURRING IN:	ANN CONS KG AN VIA THIS FD	IN CONS KG	ANN CONS KG AS ADDED FLAV	CONSUMPTION RATIO	FOOD PRE- DOMINANT
2-PENTENAL	3218	AVOCADO BUTTER KIWIFRUIT ORANGE JUICE	.7 1.8 .0 18.4					2,3,5,6-TETRAMETHYL PYRAZINE	3237	COCOA COFFEE ROASTED	4,728.1 3,011.9	7,740.0	17	455.295	++
		PEANUT OIL PEANUT, ROASTED STRAWBERRY	.9 17.9 20.2					4-THUJANOL	3239	NUTHEC	1,840.0	1,840.0	3	6,133.333	++
ISO PENTYLAMINE	3219	GRAPE	395.6	59.9	212	.281	-	TRIMETHYLAMINE	3241	EACON MUSHROOM, DRIED TOMATO	58.0 92.0 35.4	185.4	824	. 225	-
		MUSHROOM, DRIED TOMATO WINE, RED WINE, WHITE	82.8 991.8 2.8 32.2	1 505 2	,	1	•	P-ALPHA-ALPHA-TRIMETHYLBENZYL ALCOHOL	3242	GRAPEFRUIT JUICE MANGO	5.5 27.6	33.1		9.195	+
PHENETHYLAMINE	3220	BEER CHOCOLATE GRAPE GRAPE WINE, RED WINE, WHITE	21,666.0 1,115.5 103.5 77.3 53.8 29.0	1,505.2 23,045.1		3,763.000 57,612.750	++	2,3,5-TRIMETHYLPYRAZINE	3244	ALMOND, ROASTED BEEF ROASTED CHICKEN, HEATED COCOA COFFEE ROASTED PEANUT, ROASTED TEA, GREEN	4,209.0 2,087.0 117.3 2,553.5 13,553.4 57.0 73.6	22,650.8	95	238.429	++
PHENETHYL HEXANOATE	3221	BEER GRAPE	1,729.6 4,002.0	5,731.6	10	573.160	**	UNDECANOIC ACID	3245	BEER GRAPEFRUIT JUICE MUSHROOM, DRIED	24,863.0 2.8 .9	22,030.0			
PHENETHYL OCTANOATE	3222	BEER RUM	3,243.0 9.4	3,252.4	10	325.240	++	0.4 100 100	3249	WHISKEY COFFEE ROASTED	54.3 557.8	24,921.0) 49	508.591	++
PHENOL	3223	BEER BUTTER CHICKEN, HEATED COFFEE ROASTED MUSHROOM, DRIED RASPBERRY	108.1 6.2 1.2 40,046.5 .0 4.1					2.6-XYLENOL 2-ACETYLPYRIDINE		WHISKEY COFFEE ROASTED	4,462.0	558.0 4,462.0		10.334 51.884	++
		RUM TEA, BLACK TEA, GREEN WHISKEY WINE, REC	9.0 834.9 128.8 27.4 26.9					BENZOTHIAZOLE	3256	ASPARAGUS, COOKED HANGO WHISKEY	1.4 .2 2.1	3.	7 2.3	1.609	+
2-PHENYL-2-BUTENAL	3224	ALMOND, SOASTED COFFEE ROASTED MUSHROOM, FRESH PEANUT, ROASTED	140.3 669.3 21.4 71.3	41,193.1		17,910.045	**	2, 3-DIMETHYLPYRAZINE	3271	BREAD, WHITE CHICKEN, HEATED COCOA COFFEE ROASTED PEANUI, ROASTED POTATO CHIPS	170.4 11.5 126.3 6,972.0 5.1 393.3				
PROPENYL PROPYL DISULFIDE	3227	ONIONS	6.039.8	902.3	21	42.966 150.995	#+ #+	2.5-DIMETHYLPYRAZINE	3272	BEEF ROASTED	1,444.9	7,678.	6 11	698.054	. ++
PROPYL DISULFIDE	3228	ASPARAGUS, COOKED ONIONS	.7 13,754.0	13,754.7	181	76.010	++			BEER COCOA COFFEE ROASTED PEANUT, ROASTED POTATO CHIPS	2,378.2 743.6 31,791.8 53.6 590.0				
STYRENE	3233	BEANS BEER COFFEE ROASTED LENTILS OLIVE OIL PEAS STRAUBERRY WINE, WHITE	4.6 2,270.1 401.6 .5 171.1 .2 11.0	2,859.6	13	219.968	++	2,6-DIMETHYLPYRAZINE	3273	BEEF ROASTED BEER CHICKEN, HEATED CHOCOLATE COCQA COFFEE ROASTED PEANUT, ROASTED	75.4 1,525.1 756.7 5.8 2,075.8 982.1 41,831.3 69.2	37,077.	5 10	3,707.75	D ++
MENTHOFURAN	3235	PEPPERMENT OIL	5,520.0	5,520.0	25	220.800	++			POTATO CHIPS RUM	174.8 141.5	47,562.	.3 2.7	17,615.66	7 ++



CONSUMPT	ION RATIO	AND FOOD PREDOMINANC	E OF FLAVORING M	ATERIALS (c	ontinued)				CONSUMPTION RATIO A	ND FOOD PREDOMINANC	OF FLAVORING	ATERIALS (c	ontinued)		
FLAVORING MATERIAL:	PEMA No.	OCCURRING IN:	ANN CONS KG	ANN CONS KG VIA FOOD	ANN CONS KG AS ADDED FLAV	CONSUMPTION V RATIO	FOOD PRE-	FLAVORING MATERIAL:	FEMA NO.	OCCURRING IN:	ANN CONS KG	ANN CONS KG	ANN CONS KG AS ADDED FLAV	CONSUMPTION RATIO	FOOD PRE-
DIMETHYL TRISULFIDE	3275	BEER CAULIFLOWER CHICKEN, HEATED ONIONS WHISKEY	10.8 7.4 58.0 2,870.4 1.6							CRANBERRIES MUSHROOM, DRIED STRAWBERRY	8.3 .2 11.0	313.5		783.750	**
DIPROPYL TRISULFIDE	3276	ONIONS	15,847.0	2,948.2		9,827.333	++	2-PENTANOL	3316	APPLE APPLE JUICE BUTTER	568.3 331.9 46.0				
2-ETHYL PYRAZINE	3281	BREAD, WHITE COFFEE ROASTED PEANUT, ROASTED POTATO CHIPS	1,136.2 20,079.0 299.5 174.8	15,847.0 21,689.5	.1	417.026 216,895.000	++			CHEESE, BLUE COCOA GRAPE, CONCORD OLIVE OIL ORANGE JUICE RUM STRAWBERRY	21.9 336.7 2.3 2.1 18.4 47.2 20.2				
ETHYL THIOACETATE	3282	BEER WINE, RED	54.1 1.8							WINE, RED	40.5	1,435.5	25	57.420	++
		WINE, WHITE	.2	56.1	.1	561,000	++ ,	2-PENTYLFURAN	3317	AVOCADO CHICKEN, HEATED	.2 1,101.2 145.1				
N-FURFURYLPYRROLE	3284	ALMOND, ROASTED BEER CHICKEN, HEATED COFFEE ROASTED	70.2 216.2 11.5 5,466.0				1		•	COFFEE ROASTED POTATO CHIPS RICE COOKED	8.7 115.0	1,370.	2 .1	13,702.000	++
				5, 763.9	1.8	3,202.167	++	2,4,5-IRIMETHYLTHIAZOLE	3325	BEEF ROASTED CHOCOLATE	1,043.5				
2-HEPTANOL	3288	BEER BUTTER CHEESE, BLUE	432.4 2.3 132.5	1						COCOA	14.0		5 .4	2,671.250	++
:		COCOA STRAWBERRY	28.1 38.6	633.9	.4	1,584.750	++	ACETONE	3326	APPLE JUICE AVOCADO	242.2 75.9 3.2				
4-HEPTENAL	3289	BUTTER FISH	.7	1		·				BEANS BEER BREAD, WHITE	571.8 21,620.0 28,882.3				
3-HEXANONE	3290	BREAD, WHITE	1,817.9	1,817.9	3.2	.282	++			BUTTER CARROT CHEESE, BLUE CHEESE, CHEDDAR	59.8 346.8 40.5 3,857.1				
4-HYDROXYBUTANOIC ACID LACTONE	3291	BEER COFFEE ROASTED WINE, WHITE	35,673.0 5,242.9 3,795.0							CHEESE, SWISS CHICKEN, HEATED LENTILS MAIZE	1,485.3 579.6 18.6 3,834.8				
5-HYDROXYUNDECANOIC ACID LACTONE	3294	BUTTER	138.0	44,710.9	149	300.073	++		4	MILK PEANUT OIL PEANUT, ROASTED	14,662.5 312.1 7.1				
METHYL PROPYL TRISULFIDE	3308	ONIONS	13,335.4	138.0	616	.224	-			POTATO CHIPS RICE COOKED RUM	43.7 460.0 23.7	1			
2-METHYLPYRAZINE	3309	ALMOND, ROASTED BEEF ROASTED BEER BREAD, WHITE CHICKEN, HEATED COCOA	3,788.1 561.9 1,513.4 34,086.0 11.5 280.6	13,335.4	45	296.342	++			STRAWBERRY TEA, BLACK TOMATO WHISKEY WINE, RED WINE, WHITE YOGURT	791.2 1.6 58,797.2 1,357.0 179.4 289.8 8,045.4		6 45	3,257.526	++
		COFFEE ROASTED PEANUT, ROASTED POTATO CHIPS	71,949.8 2,160.4 87.4					2-ACETYLTHIAZOLE	3328	COCOA	16.8			. 509	
'		RUM	47.2	114,486.3	235	487.176	++	BISABOLENE	3331	CARROT LEMON OIL	3,602.0 5,520.0)			
3-METHYLTHIOPROPYL ISOTHIOCYANATE	3312	CAULIFLOWER	110.4	110.4	117	. 944	-			PEPPER	24, 743.4		4 249	136.006	++
2-NONANOL	3315	APPLE BEER CHEESE. BLUE	7.4 216.2					3-N-BUTYLPHTHALIDE	3334	CELERY LEAVES	2,318.4	2,318.	4 2.3	1,008.000) ++



CONSUMPTION RATIO AND FOOD PREDOMINANCE OF FLAVORING MATERIALS (continued)

CONSUMPTION RATIO AND FOOD PREDOMINANCE OF FLAVORING MATERIALS (continued)

								CONSUMPTION	KATIO A	ND FOOD PREDOMINANCE	OF FLAVORING	MATERIALS (c	ontinued)		
FLAVORING MATERIAL:	FEMA NO.	OCCURRING IN:			ANN CONS KG AS ADDED FLAT	CONSUMPTION V RATIO	FOOD PRE DOMINANT	FLAVORING MATERIAL:	FEMA NO.	OCCURRING IN:			ANN CONS KG AS ADDED FLAV		FOOD PRE-
DIFURFURYL ETHER	3337	COFFEE ROASTED	2,007.9	2,007.9	.4	5,019.750	++	PYRROLE	3386	BEEF ROASTED CHICKEN, HEATED COFFEE ROASTED	160.5 34.7 2,119.5				
ETHYL 3-METHYLTHIOPROPIONATE	3343	BRANDY, GRAPE PINEAPPLE WHISKEY WINE, WHITE	1.8 4.8 1.2 .9					2-TRIDECANONE	3388	BUTTER CHEESE BLUE	80.5	2,314.7	.2	11,573.500	**
FURFURYL PROPIONATE	3346	COFFEE ROASTED	1,227.1	8.7 1,227.1	144	.060	-			CHEESE, CHEDDAR COCONUT GRAPEFRUIT JUICE	1,121.3 5,713.2 .2				
HEPTANOIC ACID	3348	BEER COFFEE ROASTED	12,972.0 76,858.0	1,227.1	3.6	340.861	++	SAFRANAL	3389	GRAPEFRUIT JUICE	1.6 73.6	6,916.1	99	69.859	++
		GRAPE MUSHROOM, DRIED PORK	2,120.6 .7 426,466.0					N-BUTYL-2-METHYLBUTYRATE	3393	TEA, GREEN	245.9	75.2	.0	>999, 999	++
		RASPBERRY RUM TEA, GREEN WHISKEY	10.1 118.5 73.6 122.1							STRAWBERRY	1.8	247.7	4.5	55.044	++
3-HEXANOL	3351	COCOA	112.2	518,741.6	20	25,937.080	++	3-ETHYLPYRIDINE	3394	BEER LAMB FAT	4.4	5.3	3.0	1.767	+
		TOMATO	17,710.0	17,822.2	33	540,067	++	2-HEPTYLFURAN	3401	CHICKEN, HEATED	11.5	11.5	.0	>999,999	++
DELTA NONALACTONE	3356	BUTTER WINE, WHITE	11.5	17.0	23	.739	- ,	CIS-3-HEXENYL BUTYRATE	3402	MANGO STRAWBERRY TEA, GREEN	.5 5.5 223,008.0				
2-METHOXY-3(546) ISOPROPYL PYRAZINE	3358	TOMATO	.7	.7	.2	3.500	+	CIS-3-HEXENYL HEXAN A E	3403	TEA, GREEN	248.4	223,014.0		1,242.000	++
METHYL FURFURYL DISULFIDE	3362	COFFEE ROASTED	429.4	429.4	.9	477.111	++	TIGLIC ALDEHYDE	3407	BEEF ROASTED ONION	3,853.0 17.9			656.085	++
4-METHYL-3-PENTEN-2-ONE 2-METHYLTETRAHYDROFURAN-3-ONE	3368	MUSHROOM, FRESH ALMOND, ROASTED	1,262.7	8.5	.4	21.250	++	METHYL JASMONATE	3410	TEA, GREEN	36.8			122.667	++
	3313	BEER POTATO CHIPS RUM	648.6 26.2 471.5					METHYL LINOLENATE	3411	GRAPEFRUIT JUICE	5.5	5.5	3.6	1.528	+
NONA-2-TRANS,6-CIS-DIENAL	3377	CUCUMBERS PEANUT, ROASTED	3,263.7 .7	2,409.0	24	100.376	++	3-(METHYLTHIO)PROPANOL	3415	BEER WHISKEY WINE, WHITE	35,673.0 .5 96.6	.			
TRANS-2-NONEN-1-OL	3379	ASPARAGUS, COOKED	1.4	3,264.4	7.7	423.948	++	3-octen-2-one	3416	ASPARAGUS, COOKED	.7	35,770.1	7.2	4,968.069	++
9,12-OCTADECADIENOIC ACID	3380-	A BEER CHEESE, BLUE	7,567.0	1.4	.1	14.000	++		3417	AVOCADO MANGO	.0	.1	.1	7.000	+
		CHEESE, BLUE CHEESE, CHEDDAR GRAPE, CONCORD MILK	19,468.4 61,893.0 483.0 351,900.0					3-PENTEN-2-ONE	3417	POTATO CHIPS RUM	2.3 660.1	3	5 24	27.608	. ++
		RUM WHISKEY	2.8	441,436.3	557	792.523	++	DAMASCENONE	3420	BEER BRANDY, GRAPE GRAPE, CONCORD	108. 6.2	2			
9,12,15-OCTADECATRIENOIC ACID	3380-1	BEER CHEESE, CHEDDAR	1,621.5 35,880.0	37,501.5	557	67.328	++			MANGO WINE, WHITE	23.	0	4 19	7.336	· +
1-PENTEN-3-ONE	3382	KIWIFRUIT	1.9	3.9	3.6	1.083	+	2, 6, 6-TKIMETHYLCYCLOHEX-2-ENE-1, 4-DIONE	3421	TEA, GREEN	18.	18.	4 126	.146	5 -
2-PENTYLPYRIDINE	3383	LAMB FAT	5.5	5.5	.1	55.000	++	2,4-UNDECADIENAL	3422	MUSHROOM, FRESH		7			



102.1

9.5 10.747

CONSU	MPTION RATIO	AND FOOD PREDOMINANC	E OF FLAVORING M	ATERIALS (c	continued)			CONSUMPTION RATIO AND FOOD PREDOMINANCE OF FLAVORING MATERIALS (continued)									
FLAVORING MATERIAL:	FEMA NO.	OCCURRING IN:			ANN CONS KG AS ADDED FLAV		FOOD PRE-	FLAVORING MATERIAL:	FEMA NO.	OCCURRING IN:			ANN CONS KG AS ADDED FLAV	CONSUMPTION RATIO	FOOD PRE-		
		PEANUT OIL	1.4							RUM	47.2						
		POTATO CHIPS	2.3	4.4	22	.201	_	1		TEA, GREEN WHISKEY	18.4 54.5						
				4.4	22	.201	-	1				275.6	7.0	39.373	++		
2-UNDECENAL	3423	CHICKEN, HEATED	1,182.4					ETHYL UNDECANOATE	3492	RUM	9.4						
		OLIVE OIL	12,834.0					1		WHISKEY	217.1	226.5	1.3	174.231	++		
		PEANUT OIL PEANUT, ROASTED	8.5 107.0											2.71252			
		POTATO CHIPS	35.0	14,167.8	2	70,839.000	++	3-HEXENYL 2-METHYL BUTANOATE	3497	TEA, GREEN	18.4	18.4	43	.428	_		
ETHYL 3-HYDROXYBUTYRATE	24.00	GRAPE, CONCORD		14,107.0		70,037.000		HEXYL-2-METHYLBUTANOATE	3499	APPLE	1,211.0						
EIHIL 3-HIDROXIBULIKALE	3428	MANGO	23.0 28.5					THE TENTE TO THE T	34//	GRAPE GRAPE, CONCORD	16.1 6.9						
		ORANGE JUICE WINE, RED	36.8 224.3							GRAFE, CONCORD	0.7	1,234.0	90	13.712	++ .		
		•		312.6	389	.804	-	3-METHYLBUTYL 2-METHYLBUTANOATE	3505	WINE, RED	53.8						
TRANS,TRANS-2,4-HEXADIENAL	3429	KIWIFRUIT	.0							·		53.8	.1	538.000	++		
		PEANUT OIL PEANUTS, ROASTED	.0 1.4					3-METHYLBUTYL 2-METHYLPROPANOATE	3507	BEER	2,162.0						
				1.4	11	.127	-			GRAPE GRAPE, MUSCAT	144.4						
3-METHYLPENTANOIC ACID	3437	COCOA BUTTER	33.8							WHISKEY WINE, RED	312.1 53.8						
				33,8	3. 6	9.389	+	İ		WINE, NED	33.0	2,674.1	9.1	293.857	++		
2,2,4-TRIMETHYL-1,3-OXACYCLOPENTA	ANE 3441	BEER BRANDY, GRAPE	2,162.0 1,2					METHYL 3-HYDROXYHEXANOATE	3 5 0 8	ORANGE JUICE	110.4						
		WINE, RED	94.3	2,257.5	.0	>999,999				STRAWBERRY	130.6	241.0	.1	2,410.000	++		
				2,237.3	.0	,,,,,,,,,	++	2-METHYLTETRAHYDROTHIOPHEN-3-ONE	3512	BEER	108.1						
FARNESYL ACETONE	3442	GRAPEFRUIT JUICE TOMATO	.2 460.5					2-METHICIETRANIDROTHTOFHEN-3-UNE	3312	COFFEE ROASTED	4,908.2						
				460.7	. 2	2,303.500	++			WHISKEY WINE, WHITE	4.1 15.2						
VALENCENE	3443	GRAPEFKUIT JUICE	2.5			,						5,035.6	.4	12,589.000	++		
		MANGO ORANGE JUICE	.0 441.6					1-OCTENE-3-ONE	3515	ARTICHOKE MUSHROOM, DRIED	2.8						
			******	444.1	389	1,141	+ 1			MUSHROOM, FRESH	89.9	92.7		007 000			
HEXYL PHENYLACETATE	3457	GRAPE, MUSCAT	32.2					PROPANICATION .				92.7	.1	927.000	++		
				32.2	5.4	5.963	+	PROPANETHIOL	3521	ONIONS	358.8	358.8	38	9.442	+		
ISO MENTHONE	3460	PEPPERMINT OIL SPEARMINT OIL	16,100.0 230.0					PYRROLIDINE	3523	COFFEE ROASTED	6,693.0						
		SI MINITAL OLD	230.0	16,330.0	18	907.222	++	*		OUT DE MONOTES	0,07510	6,693.0	9.1	735.495	++		
4-METHYLPENTANOIC ACID	3463	RUM	8.5					M-CRESOL	3530	BUTTER	2.5						
				8.5	344	.025	-)		COFFEE ROASTED GRAPE, MUSCAT	4,517.9 .9						
CIS-6-NONEN-1-0L	3465	CUCUMBERS	49.5	49.5		27.500		1		MUSHROOM, DRIED	2.3						
				49.3	1.8	27.300	++			WHISKEY	5.5						
0-CRESOL	3480	BEER COFFEE ROASTED	108.1 7,306.6							WINE, RED	4.6	4,533.7	.4	11,334.250	++		
		MUSHROOM, DRIED RUM	.7					DIMETHYL DISULFIDE	3536	BEER	118.9			•			
		WHISKEY	12.4					l .		BRANDY, GRAPE	.2						
i		WINE, RED	17.9	7,450.5	.1	74,505.000	++			CABBAGE COCOA	10.8 140.3						
ETHYL TRANS-2-BUTENOATE	3486	GRAPE, CONCORD	75.9			•				LOBSTER OLIVE OIL	13.3 4.4						
1		STRAWBERRY	20.2	26.1	25					ONION PORK	1,034.5						
				96.1	25	3.844	+	-		WHISKEY	9.0 24.4						
ETHYL OCTADECANOATE	3490	BRANDY, GRAPE COCOA	34.3 112.2					1		WINE, RED WINE, WHITE	2.1						
		COCONUT GRAPE, MUSCAT	2.1							•		1,358.1	185	7.341	+		
		GRAPEFRUIT JUICE	5.5					3,7-DIMETHYL-1,3,6-OCTATRIENE	3539	GRAPEFRUIT JUICE	74.5						
								1		MANGO	27.6	102 1	0.5	10 747			



CONSUMPTION RATIO AND FOOD PREDOMINANCE OF FLAVORING MATERIALS (continued)

CONSUMPTION RATIO AND FOOD PREDOMINANCE OF FLAVORING MATERIALS (continued)

FLAVORING MATERIAL:	FEMÁ NO.	OCCURRING IN:			ANN CONS KG AS ADDED FLAV		FOOD PRE- DOMINANT	FLAVORING MATERIAL:	FEMA NO.	OCCURRING IN:			ANN CONS KG AS ADDED FLAV		FOOD PRE- DOMINANT
GERANYL ACETONE	3542	GRAPEFRUIT JUICE TEA, GREEN TOMATO	.0 18.4 3,223.2	3,241.6	72	45.023	**	3-OCTANOL	3581	APPLE JUICE MUSHROOM, FRESH STRAWBERRY WINE, WHITE	2.3 164.7 1.8 .2	169.0	6.8	24.853	**
ETHYL-2-HYDROXYHEXANOATE	3545	GRAPE, CONCORD ORANGE JUICE STRAWBERRY	2,3 1,177.6 5.5	1,185.4	.4	2,963.500	++	1-OCTEN-3-YL ACETATE	3582	MUSHROOM, FRESH SPEARMINT OIL	.9 230.0	230.9	6.8	33.956	++
2-HYDROXYACETOPHENONE	3548	ALMOND, ROASTED COCOA COFFEE ROASTED RUM WHISKEY	70.2 56.1 1,784.8 .9	1,912.2	23	83.139	++	1-PENTEN-3-OL	3584	ASPARAGUS, COOKED CHICKEN, HEATED KIWIFRUIT STRAWBERRY TEA, BLACK TEA, GREEN	5.8 637.6 .9 20.2 151.8 4,489.6				
3-H, TOROXY-2-PENTANONE ISOPHORONE	3550 3553	BEER CRANBERRIES	1,081.0	1,081.0	2.0	540.500	++	DELTA TETRADECALACTONE	3590	BUTTER COCONUT	7,728.0 1,242.0	5,305.9 8,970.0	3.6	9,966.667	++
•		GRAPEFRUIT JUICE MUSHROOM, FRESH	13.8	30.4	1.3	23.384	++	2,5-XYLENOL	3595	COFFEE ROASTED	1,673.3	1,673.3		8,366.500	++
P-MENTHA-1,8-DIEN-7-AL	3557	GRAPEFRUIT JUICE ORANGE JUICE	3.2 110.4	113.6	37	3.070	+	3,4-XYLENOL	3596	COFFEE ROASTED	892.4	892.4	.4	2,231.000	++
P-MENTHA-1, 3-DIENE	3558	CARROT LEMON OIL NUTMEG	970.8 3,450.0 5,520.0					2-METHOXY-4-PROPYLPHENOL 2-METHYL-TRANS-2-BUTENOIC ACID	3598 3599	RUM CELERY LEAVES	37.7 77.3	37.7	.9	41.889	++
		OREGANO PEPPER	1,094.8 13,683.9	24,719.5	1.5	16,479.666	++	OCTYL 2-METHYLBUTYRATE	3604	STRAWBERRY	9.2	77.3	.0	>999,999	++
P-MENTHA-1,4-DIENE	3559	CARROTS LEMON OIL	4,603.7 4,584.6 58,650.0					2-ACETYL-5-METHYLPURAN	3609	BEER	108.1	9.2	34 1.8	60.056	++
		NUTMEG ORANGE JUICE OREGANO PEPPER	6,900.0 110.4 4,535.6					2-PROPINYLPYRROLE	3614	TEA, GREEN	220.8	220.8	.0	>999,999	++
PIPERITENONE	3560	GRAPEFRUIT JUICE	18,932.5	98,316.8	498	197.423	++	THIAZOLE ALPHA IONOL	3615	CHICKEN, HEATED	17.7	17.7	.0	>999,999	++
P-MENTHA-1,8-DIEN-7-YL ACETA	ATE 3561	ORANGE JUICE GRAPEFRUIT JUICE	220.8	223.6	15	14,907	++ :	BETA IONOL	3624	GRAPE	598.0 920.0	598.0	.3	1,993.333	++
F-MENTH-3-EN-1-OL	3563	GRAPEFRUIT JUICE	2.8	1.2	5.0	.240	-	DIHYDRO-BETA IONONE	3626	RASPBERRY	5.1	920.0	-1.3	707.692	**
P-MENTH-8-EN-1-OL	3564	GRAPEFRUIT JUICE MANGO	295.3 1.8	2.8	.0	>999,999	++	DIHYDRO-ALPHA-LONONE	3628	TEA, GREEN	184.0	184.0	.1	25.500 1,840.000	**
I		NUTMEG	1,495.0	1,792.1	321	5. 583	+	4-HYDROXY-5-METHYL-3(2H)-FURANONE	3635	RASPBERRY	5.1	5.1	.1	51.000	++
P-MENTH-8-EN-2-ONE	3565	CELERY LEAVES GRAPEFRUIT JUICE SPEARMINT OIL	309.1 .9 3,450.0	3,760.0	.0	>999,999	++	2,6,6-TRIM1,2-CYCLOHEXEN-1-CARBOXALD	3639	MANGO TEA, GREEN	.2 73.6	73.8	.1	738.000	++
METHYL 2-METHYL-3-FURYL DISU	JLFIDE 3573	COFFEE ROASTED	11.3	11.3	2.7	4.185	+	ETHYL TRANS-4-DECENOATE	3642	BEER	864.8	864.8	.2	4,324.000	++
METHYL 1-PROPENYL DISULFIDE	3576	ONION	1,136.2	1,136.2	3.2	355.063	++	ETHYL TRANS-2-OCTENOATE	3643	GRAPE, CONCORD GRAPEFRUIT JUICE	2.3	2.3	.0	> 999, 999	**



CONSUMPTION	RATIO	and	FOOD	PREDOMINANCE	OF	FLAVORING	MATERIALS	(continue
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CONSUMPTION	RATIO A	ND FOOD PREDOMINANCE	OF FLAVORING	MATERIALS (c	ontinued)		
FLAVORING MATERIAL:	FEMA	OCCURRING IN:			ANN CONS KG AS ACDED FLAV	CONSUMPTION RATIO	FOOD PRE- DOMINANT
3-METHYL-2-BUTEN-1-OL	3647	COFFEE ROASTED ORANGE JUICE RASPBERRY	6,023.7 18.4 114.3				2-11-11-11-1
				6,156.4	.1	61,564.000	++
1,4-CINEOLE	3658	GRAPEFRUIT JUICE	16.6	16.6	462	.036	_
9-DECENOIC ACID	3660	BEER	1.0, 810.0				
) Buchiote Roll	3000	DEEK .	1.0, 810.0	10,810.0	.0	>999,999	++
2,5-DIMETHYL-4-METHOXY-3(2H)-FURANONE	3664	GRAPE, CONCORD MANGO PINEAPPLE	34.5 4.6 96.6				
1		STRAWBERRY	563.0	698.7	.0	>999, 999	++
4-ETHYL-2,6-DIMETHOXYPHENOL	3671	BEER	108.1				
				108.1	.0	>999,999	++
2-ETHYLFURAN	3673	CHICKEN, HEATED OLIVE OIL	782.5 100.5				
				883.0	.0	>999,999	++
ETHYL TRANS-2-HEXENOATE	3675	GRAPE, CONCORD STRAWBERRY	2.3 1.8				
		SIRAWBERKI	1.0	4.1	.0	>999, 999	++
CIS-3-HEXENYL BENZOATE	3688	TEA, GREEN	138.0	138.0	.0	>999,999	++
HEXYL BENZOATE	3691	PEACHES	724.5				
		TEA, BLACK	986.7	1,711.2	.0	>999,999	++
3-METHYL-2-BUTANOL	3703	BRANDY, GRAPE GRAPE, MUSCAT	36,483.8 3.5	36.487.3			
CIS-2-NONEN-1-OL,	1,120			30,487.3	.0	>999,999	++
CIS-2-NONEN-I-UL.	3 720	ASPARAGUS, COOKED	1.4	1.4	.0	>999, 999	++
TRANS, TRANS-2, 4-OCTADIENAL	3721	PEANUT OIL	.0				
		PEANUT, ROASTED	.1	.7	.0	>999,999	++
2-OXOBUTYRIC ACID	3723	BEER	11,891.0			•	
		i	·	11,891.0	.0	999,999	++
2-PENTADECANONE	3,724	CHEESE, CHEDDAR CHICKEN, HEATED COCONIT COFFEE, ROASTED	1,390.4 115.9 2,691.0				
		COFFES, KOASTED	3,235.0	7,432.3	.0	>999,999	++
4-PROPENYL-2,6-DIMETHOXYPHENGL	3728	BEER	108.1				
				108.1	.0	>999,999	++ ·
2,2,6-TRIMETHYL-6-VINYLTETRAHYDROPYRAM	3735	GRAPEPRUIT JUICE WINE, WHITE	15.2 2.8				,
				18.0	.0	>999,999	++
P-VINYLPHENOL	3739	ASPARAGUS, COOKED BEER COFFEE, ROASTED	21.9 16,647.4 1,004.0				
		MANGÓ PEANUT, ROASTED	1.2				
		RASPBERRY STRAUBERRY TEA, GREEN	20.2 12.9 36.8				

CONSUMPTION RATIO AND FOOD PREDOMINANCE OF FLAVORING MATERIALS (continued)

FLAVORING MATERIAL:	FEMA NO.	OCCURRING IN:			ANN CONS KG AS ADDED FLAV		FOOD PRE- DOMINANT
		WINE, RED	.7				
				17,745.3	.0	>999,999	++
5-HYDROXY-7-DECENOIC ACID DELTA LACTONE	3745	HANGO	73.6				
J-HIDROXI-7-DECENDIC ACID DELIA EACTORE	3743	radioo	73.0	73.6	.0	>999,999	++
				,,,,		**********	• • • • • • • • • • • • • • • • • • • •
LINALOOL OXIDE	3746	APPLE JUICE	7.8				
		BEER	432.4				
		GRAPE	193.2				
		GRAPE, MUSCAT	1.6				
		GRAPEFRUIT JUICE ORANGE JUICE	2,827.6 36.8				
		STRAWBERRY	42.3				
		TEA, BLACK	910.8				
		TEA, GREEN	1,573.2				
		WINE, WHITE	207.0				
		•		6,232.7	104	59.930	++
				-			
BETA CARYOPHYLLENE OXIDE		BEER	432.4				
		GRAPEFRUIT JUICE	55.2				
				487.6	3.3	1.47.757	++
CADINENE		GRAPEFRUIT JUICE	500.9				
		ORANGE JUICE	18.4				
		PEPPER	7,310.6				
		TEA, GREEN	4, 324.0				
		·	•	12,153.9	90	135.043	++
CARVORUVI I ENE AL COUCL		neen					
CARYOPHYLLENE ALCOHOL		BEER GRAPEFRUIT JUICE	648.6 165.6				
		GRAFEFRUIT JUICE	103.0	814.2	.9	904.667	++
				014.2	.,	904.007	++
MENTHADIENOL		ORANGE JUICE	294.4				
				294.4	.1	2,944.000	++
2-BUTANOL		APPLE JUICE	677.1				
		BEANS	44.9			f	
		BUTTER	115.0				
		CHEESE, CHEDDAR	16,190.9				
		CHEESE, SWISS	198.0				
		LENTILS	2.5				
		ORANGE JUICE PEAS	73.6 139.2				
4		POTATO CHIPS	8.7				
36		RUM	5,658.0				
		STRAWBERRY	119.6				
		TEA, BLACK	341.6				
		WHISKEY	1,139.9				
		WINE, RED	17.9				
				24,726.9	.1 2	47,269.000	++