

Table A-6 Estimated Daily Intake of Erythritol from Individual Proposed Food-Uses by Male Adults Aged 20 Years and Over within the U.S. (2013-2014 NHANES Data)

Food-Use Category	% Contribution to Total Mean Intake	Per Capita Intake (g/day)		Consumer-Only Intake (g/day)			
		Mean	90 th Percentile	%	n	Mean	90 th Percentile
Sugar Substitutes	0.7	0.3	0.6	11.5	246	2.2	5
Canned Fruit (Syrup)	0.5	0.2	na	4.2	85	3.8	6.7
Regular or Low-Calorie Syrups or Toppings	0.3	0.1	na	2.4	64	4.3	8.9*

n = sample size; na = not available; NHANES = National Health and Nutrition Examination Survey; U.S. = United States.

* Indicates an intake estimate that may not be statistically reliable, as the sample size does not meet the minimum reporting requirements (mean n<30; 90th percentile n<80).

Table A-7 Estimated Daily Intake of Erythritol from Individual Proposed Food-Uses by the Total U.S. Population (2013-2014 NHANES Data)

Food-Use Category	% Contribution to Total Mean Intake	Per Capita Intake (g/day)		Consumer-Only Intake (g/day)			
		Mean	90 th Percentile	%	n	Mean	90 th Percentile
All	100	31.1	62.1	97.0	7,218	32.1	63.0
Baked Goods and Baking Mixes (excluding regular bread)	17.7	5.5	15.5	63.6	4,791	8.7	19.6
Bars (Granola, High Protein)	1.5	0.5	1.7	11.5	667	4.0	7.5
Cakes	5.7	1.8	6.3	14.5	1,057	12.2	26.1
Cookies	5.0	1.5	4.9	34.1	2,538	4.5	9
Alcoholic Beverages (Lite Beer, Coolers)	4.5	1.4	na	5.7	322	24.3	50.4
Flavored Quenchers	3.6	1.1	na	7.2	523	15.6	26.8
Reduced- and Low-Calorie Carbonated and Non-Carbonated Beverages	13.9	4.3	14.7	24.6	1,500	17.6	40.9
Hot Cereal – Oatmeal (Instant or Cooked)	1.2	0.4	na	7.8	671	4.8	8.5
Ready-to-Eat Cereals	11.6	3.6	12.0	35.2	2,770	10.2	19.4
Chewing Gum	0.2	0.1	na	2.9	242	2.4	4.5
BBQ Sauce	0.8	0.2	na	9.4	660	2.6	5.4
Tomato Sauce	1.4	0.4	1.2	25.0	1,855	1.7	4.0
Imitation Dairy Drinks (Soy, almond, cashew, coconut, and other plant-based)	1.7	0.5	na	5.4	378	10.1	22.0
Non-Dairy Toppings	<0.1	<0.1	na	0.9	41	1.1	1.9*
Low Calorie Salad Dressings	0.5	0.1	na	5.8	377	2.5	5.5
Frozen Desserts (Regular Ice Cream, Soft Serve, Sorbet, Frozen Yogurt)	6.1	1.9	7.2	25.1	1,698	7.5	15.3
Fruit-Based Slushies	0.1	<0.1	na	3.1	255	1.4	2.8
Fillings (Fruit, Custard, Cream, Pudding)	<0.1	<0.1*	na	0.1	2	1.7*	1.66*
Puddings (Instant, Phosphate Set)	0.6	0.2	na	2.3	137	8.2	13.2
Hard Candy (Mints, Pressed, Candies, Cough Drops)	2.3	0.7	na	6.5	511	11.1	27.7
Jams and Jellies	0.6	0.2	0.5	11.3	839	1.6	3
Dairy drinks (Chocolate and Flavored Milks)	3.1	1.0	4.3	13.7	1,221	7.0	13.0
Yogurt	2.8	0.9	3.8	16.5	1,121	5.2	9.9
Fruit-Based Smoothies	1.1	0.3	na	4.0	279	8.4	15.1
Salty Snacks	3.2	1.0	3.2	36.1	2,572	2.8	5.7
Fruit Novelty Snacks (e.g., fruit peel, fruit candy bar, fruit leathers, fruit creams, fruit snack candy, gummy fruits)	1.0	0.3	na	3.4	314	9.6	19.1
Non-Chocolate Candies	3.2	1.0	na	9.8	733	10.1	24.6

Table A-7 Estimated Daily Intake of Erythritol from Individual Proposed Food-Uses by the Total U.S. Population (2013-2014 NHANES Data)

Food-Use Category	% Contribution to Total Mean Intake	Per Capita Intake (g/day)		Consumer-Only Intake (g/day)			
		Mean	90 th Percentile	%	n	Mean	90 th Percentile
Soft Chocolate Candies	4.7	1.5	4.7	22	1,425	6.7	13.5
Sugar Substitutes	0.8	0.2	0.5	11.4	677	2.1	4.5
Canned Fruit (Syrup)	0.8	0.3	na	6.7	519	3.9	6.8
Regular or Low-Calorie Syrups or Toppings	0.4	0.1	na	4.0	338	3.4	7.5

n = sample size; na = not available; NHANES = National Health and Nutrition Examination Survey; U.S. = United States.

* Indicates an intake estimate that may not be statistically reliable, as the sample size does not meet the minimum reporting requirements (mean n<30; 90th percentile n<80).

Appendix B
Estimated Daily Per Kilogram Body Weight Intake of Erythritol from Individual Proposed Food-Uses by Different Population Groups within the U.S. (2013-2014 NHANES Data)

Table B-1 Estimated Daily Per Kilogram Body Weight Intake of Erythritol from Individual Proposed Food-Uses by Infants and Young Children Aged Up to 3 Years within the U.S. (2013-2014 NHANES Data)

Food-Use Category	% Contribution to Total Mean Intake	Per Capita Intake (mg/kg bw/day)		Consumer-Only Intake (mg/kg bw/day)			
		Mean	90 th Percentile	%	n	Mean	90 th Percentile
All	100	1,206	2,681	79.7	563	1,512	2,816
Baked Goods and Baking Mixes (excluding regular bread)	18.3	221	599	60.0	414	368	808
Bars (Granola, High Protein)	1.6	19	na	6.7	36	287	603*
Cakes	2.7	33	na	7.5	50	440	1,237*
Cookies	7.0	84	302	37.0	235	227	468
Alcoholic Beverages (Lite Beer, Coolers)	0	na	na	0	0	na	na
Flavored Quenchers	2.3	28*	na	4.6	22	606*	1,119*
Reduced- and Low-Calorie Carbonated and Non-Carbonated Beverages	2.3	28	na	9.5	61	292	669*
Hot Cereal – Oatmeal (Instant or Cooked)	1.9	24	64*	10.7	68	220	430*
Ready-to-Eat Cereals	14.7	177	558	45.7	298	388	774
Chewing Gum	0.1	2*	na	1.2	13	132*	188*
BBQ Sauce	0.2	2*	na	3.0	21	61.4*	144*
Tomato Sauce	1.1	13	45	17.7	109	74.9	164
Imitation Dairy Drinks (Soy, almond, cashew, coconut, and other plant-based)	6.0	73	na	6.3	30	1,145	2,945*
Non-Dairy Toppings	0	na	na	0	0	na	na
Low Calorie Salad Dressings	0.1	1*	na	1.6	15	43*	71*
Frozen Desserts (Regular Ice Cream, Soft Serve, Sorbet, Frozen Yogurt)	3.5	42	181	16.7	118	254	481
Fruit-Based Slushies	0.4	5	na	7.2	48	68	98*
Fillings (Fruit, Custard, Cream, Pudding)	0	na	na	0	0	na	na
Puddings (Instant, Phosphate Set)	0.4	5*	na	1.3	10	387*	483*
Hard Candy (Mints, Pressed, Candies, Cough Drops)	5.2	62	na	9.1	46	686	1,892*
Jams and Jellies	0.9	11	35*	13.6	78	78	150*
Dairy drinks (Chocolate and Flavored Milks)	5.8	70	268	16.2	102	435	1,013
Yogurt	6.4	77	259	25.8	156	300	619
Fruit-Based Smoothies	0.5	7*	na	3.0	23	217*	383*
Salty Snacks	2.9	36	113	32.1	204	110	197
Fruit Novelty Snacks (e.g., fruit peel, fruit candy bar, fruit leathers, fruit creams, fruit snack candy, gummy fruits)	7.7	93	na	9.5	58	970	4,368*

Table B-1 Estimated Daily Per Kilogram Body Weight Intake of Erythritol from Individual Proposed Food-Uses by Infants and Young Children Aged Up to 3 Years within the U.S. (2013-2014 NHANES Data)

Food-Use Category	% Contribution to Total Mean Intake	Per Capita Intake (mg/kg bw/day)		Consumer-Only Intake (mg/kg bw/day)			
		Mean	90 th Percentile	%	n	Mean	90 th Percentile
Non-Chocolate Candies	3.4	41	75*	10.5	55	387	841*
Soft Chocolate Candies	1.4	16	na	8.9	58	184	447*
Sugar Substitutes	0.1	1*	na	0.5	2	141*	197*
Canned Fruit (Syrup)	2.8	34	137*	12.4	70	276	586*
Regular or Low-Calorie Syrups or Toppings	0.3	3	na	4.7	32	73	153*

bw = body weight; n = sample size; na = not available; NHANES = National Health and Nutrition Examination Survey; U.S. = United States.

* Indicates an intake estimate that may not be statistically reliable, as the sample size does not meet the minimum reporting requirements (mean n<30; 90th percentile n<80).

Table B-2 Estimated Daily Per Kilogram Body Weight Intake of Erythritol from Individual Proposed Food-Uses by Children Aged 4 to 11 Years within the U.S. (2013-2014 NHANES Data)

Food-Use Category	% Contribution to Total Mean Intake	Per Capita Intake (mg/kg bw/day)		Consumer-Only Intake (mg/kg bw/day)			
		Mean	90 th Percentile	%	n	Mean	90 th Percentile
All	100	1,209	2,256	99.9	1,149	1,210	2,256
Baked Goods and Baking Mixes (excluding regular bread)	21.1	255	613	77.8	892	327	756
Bars (Granola, High Protein)	1.0	12	47	12.2	117	98	155
Cakes	4.3	52	167	15.7	161	330	672
Cookies	5.6	67	215	45.0	497	150	323
Alcoholic Beverages (Lite Beer, Coolers)	0	na	na	0	0	na	na
Flavored Quenchers	3.6	43	131	13.1	120	329	708
Reduced- and Low-Calorie Carbonated and Non-Carbonated Beverages	3.4	42	150	24.3	245	171	310
Hot Cereal – Oatmeal (Instant or Cooked)	0.5	6	na	5.4	73	112	203*
Ready-to-Eat Cereals	14.4	174	460	59.4	697	293	587
Chewing Gum	0.3	3	na	4.5	54	68	120*
BBQ Sauce	0.3	3	na	6.4	98	54	94*
Tomato Sauce	2.1	25	72	38.3	434	66	158
Imitation Dairy Drinks (Soy, almond, cashew, coconut, and other plant-based)	0.9	11	na	3.1	31	371	653*
Non-Dairy Toppings	<0.1	<1*	na	0.3	3	54*	69.9*
Low Calorie Salad Dressings	0.2	2	na	3.7	42	59	136*
Frozen Desserts (Regular Ice Cream, Soft Serve, Sorbet, Frozen Yogurt)	6.7	81	256	35.8	346	226	503
Fruit-Based Slushies	0.6	7	27	14.4	124	48	93.1
Fillings (Fruit, Custard, Cream, Pudding)	<0.1	<1*	na	0	1	102*	102*
Puddings (Instant, Phosphate Set)	0.4	4*	na	1.8	24	249*	429*
Hard Candy (Mints, Pressed, Candies, Cough Drops)	4.7	57	168	15.7	157	365	975
Jams and Jellies	0.8	10	36	17.7	203	55	121
Dairy drinks (Chocolate and Flavored Milks)	7.3	88	294	39.7	462	223	396
Yogurt	3.1	38	148	22.2	233	171	329
Fruit-Based Smoothies	0.7	8	na	4.8	58	171	332*
Salty Snacks	3.5	43	116	50.9	563	84	164
Fruit Novelty Snacks (e.g., fruit peel, fruit candy bar, fruit leathers, fruit creams, fruit snack candy, gummy fruits)	3.7	45	156	14.7	143	304	580
Non-Chocolate Candies	4.4	53	130	18.5	202	288	730

Table B-2 Estimated Daily Per Kilogram Body Weight Intake of Erythritol from Individual Proposed Food-Uses by Children Aged 4 to 11 Years within the U.S. (2013-2014 NHANES Data)

Food-Use Category	% Contribution to Total Mean Intake	Per Capita Intake (mg/kg bw/day)		Consumer-Only Intake (mg/kg bw/day)			
		Mean	90 th Percentile	%	n	Mean	90 th Percentile
Soft Chocolate Candies	4.1	50	142	21.2	218	236	493
Sugar Substitutes	<0.1	<1*	na	0.9	7	9*	16*
Canned Fruit (Syrup)	1.5	18	59	12.0	149	148	273
Regular or Low-Calorie Syrups or Toppings	0.9	11	14	11.1	125	96	256

bw = body weight; n = sample size; na = not available; NHANES = National Health and Nutrition Examination Survey; U.S. = United States.

* Indicates an intake estimate that may not be statistically reliable, as the sample size does not meet the minimum reporting requirements (mean n<30; 90th percentile n<80).

Table B-3 Estimated Daily Per Kilogram Body Weight Intake of Erythritol from Individual Proposed Food-Uses by Female Teenagers Aged 12 to 19 Years within the U.S. (2013-2014 NHANES Data)

Food-Use Category	% Contribution to Total Mean Intake	Per Capita Intake (mg/kg bw/day)		Consumer-Only Intake (mg/kg bw/day)			
		Mean	90 th Percentile	%	n	Mean	90 th Percentile
<i>All</i>	100	457	971	99.3	564	460	971
Baked Goods and Baking Mixes (excluding regular bread)	19.1	87	237	62.0	351	141	282
Bars (Granola, High Protein)	2.4	11	50*	17.2	68	65	111*
Cakes	5.7	26	24*	11.5	73	227	659*
Cookies	5.0	23	85	34.4	204	66.6	132
Alcoholic Beverages (Lite Beer, Coolers)	0.3	1*	na	0.9	2	154*	155*
Flavored Quenchers	3.3	15	na	9.0	53	164	271*
Reduced- and Low-Calorie Carbonated and Non-Carbonated Beverages	7.6	35	96	15.0	91	233	862
Hot Cereal – Oatmeal (Instant or Cooked)	0.6	3*	na	3.5	28	82.8*	130*
Ready-to-Eat Cereals	14.9	68	210	43.3	228	157	300
Chewing Gum	0.1	<1*	na	2.8	21	18*	37*
BBQ Sauce	0.9	4	na	7.5	47	54	147*
Tomato Sauce	1.7	8	20	26.6	131	29	72
Imitation Dairy Drinks (Soy, almond, cashew, coconut, and other plant-based)	0.8	3*	na	2.1	22	166*	280*
Non-Dairy Toppings	0	na	na	0	0	na	na
Low Calorie Salad Dressings	0.9	4*	na	8.5	23	47*	72*
Frozen Desserts (Regular Ice Cream, Soft Serve, Sorbet, Frozen Yogurt)	6.1	28	95	24.3	122	115	218
Fruit-Based Slushies	0.3	1*	na	2.6	13	45*	71*
Fillings (Fruit, Custard, Cream, Pudding)	0	na	na	0	0	na	na
Puddings (Instant, Phosphate Set)	0.5	2*	na	1.8	9	133*	198*
Hard Candy (Mints, Pressed, Candies, Cough Drops)	4.3	20	na	8.6	54	227	448*
Jams and Jellies	0.6	3	na	9.6	42	27	52*
Dairy drinks (Chocolate and Flavored Milks)	4.7	22	96	20.2	113	107	195
Yogurt	2.4	11	42*	14.7	60	74	173*
Fruit-Based Smoothies	2.0	9*	na	5.8	24	156*	284*
Salty Snacks	4.0	18	54	41.3	261	44	108
Fruit Novelty Snacks (e.g., fruit peel, fruit candy bar, fruit leathers, fruit creams, fruit snack candy, gummy fruits)	2.0	9	na	6.5	39	138	268*

Table B-3 Estimated Daily Per Kilogram Body Weight Intake of Erythritol from Individual Proposed Food-Uses by Female Teenagers Aged 12 to 19 Years within the U.S. (2013-2014 NHANES Data)

Food-Use Category	% Contribution to Total Mean Intake	Per Capita Intake (mg/kg bw/day)		Consumer-Only Intake (mg/kg bw/day)			
		Mean	90 th Percentile	%	n	Mean	90 th Percentile
Non-Chocolate Candies	4.1	19	na	9.5	50	198	434*
Soft Chocolate Candies	4.0	18	55	18.4	109	99	243
Sugar Substitutes	<0.1	<1*	na	1.1	5	14*	15*
Canned Fruit (Syrup)	1.2	6	14*	10.7	32	52	119*
Regular or Low-Calorie Syrups or Toppings	0.6	3*	na	4.9	22	53*	102*

bw = body weight; n = sample size; na = not available; NHANES = National Health and Nutrition Examination Survey; U.S. = United States.

* Indicates an intake estimate that may not be statistically reliable, as the sample size does not meet the minimum reporting requirements (mean n<30; 90th percentile n<80).

Table B-4 Estimated Daily Per Kilogram Body Weight Intake of Erythritol from Individual Proposed Food-Uses by Male Teenagers Aged 12 to 19 Years within the U.S. (2013-2014 NHANES Data)

Food-Use Category	% Contribution to Total Mean Intake	Per Capita Intake (mg/kg bw/day)		Consumer-Only Intake (mg/kg bw/day)			
		Mean	90 th Percentile	%	n	Mean	90 th Percentile
All	100	514	1,013	97.1	550	529	1,013
Baked Goods and Baking Mixes (excluding regular bread)	20.4	105	280	60.6	345	173	327
Bars (Granola, High Protein)	1.5	8	31*	12.4	52	61	114*
Cakes	3.7	19	na	8.8	54	216	442*
Cookies	5.8	30	96	34.8	197	86	216
Alcoholic Beverages (Lite Beer, Coolers)	0.1	<1*	na	0.2	2	169*	183*
Flavored Quenchers	12.6	65	142	19.9	92	324	598
Reduced- and Low-Calorie Carbonated and Non-Carbonated Beverages	3.2	16	55	13.2	84	123	230
Hot Cereal – Oatmeal (Instant or Cooked)	0.6	3*	na	3.0	20	103*	237*
Ready-to-Eat Cereals	17.3	89	260	45.9	252	194	407
Chewing Gum	0.1	1*	na	1.7	20	37*	58*
BBQ Sauce	0.8	4	6*	11.2	72	38	87*
Tomato Sauce	1.8	9	28	35.2	193	27	61
Imitation Dairy Drinks (Soy, almond, cashew, coconut, and other plant-based)	0.4	2*	na	1.2	12	190*	329*
Non-Dairy Toppings	0	na	na	0	0	na	na
Low Calorie Salad Dressings	0.3	1*	na	3.2	16	43*	58.1*
Frozen Desserts (Regular Ice Cream, Soft Serve, Sorbet, Frozen Yogurt)	5.9	30	128	19.1	107	158	282
Fruit-Based Slushies	0.1	<1*	na	0.5	7	63*	102*
Fillings (Fruit, Custard, Cream, Pudding)	0	na	na	0	0	na	na
Puddings (Instant, Phosphate Set)	0.5	2*	na	0.8	5	291*	348*
Hard Candy (Mints, Pressed, Candies, Cough Drops)	2.3	12	na	5.9	42	201	405*
Jams and Jellies	0.5	3	na	6.4	48	43	80*
Dairy drinks (Chocolate and Flavored Milks)	6.0	31	120	24.5	143	126	285
Yogurt	0.8	4	na	5.4	34	81	174*
Fruit-Based Smoothies	0.6	3*	na	1.7	14	189*	317*
Salty Snacks	4.4	22	71	41.4	239	54	106
Fruit Novelty Snacks (e.g., fruit peel, fruit candy bar, fruit leathers, fruit creams, fruit snack candy, gummy fruits)	0.7	4*	na	3.3	24	110*	212*

Table B-4 Estimated Daily Per Kilogram Body Weight Intake of Erythritol from Individual Proposed Food-Uses by Male Teenagers Aged 12 to 19 Years within the U.S. (2013-2014 NHANES Data)

Food-Use Category	% Contribution to Total Mean Intake	Per Capita Intake (mg/kg bw/day)		Consumer-Only Intake (mg/kg bw/day)			
		Mean	90 th Percentile	%	n	Mean	90 th Percentile
Non-Chocolate Candies	5.4	28	24*	10.8	65	257	555*
Soft Chocolate Candies	3.1	16	52*	16.2	79	100	185*
Sugar Substitutes	<0.1	<1*	na	1.1	4	8*	13*
Canned Fruit (Syrup)	0.8	4	na	5.9	31	69	94*
Regular or Low-Calorie Syrups or Toppings	0.3	1*	na	3.2	20	46*	114*

bw = body weight; n = sample size; na = not available; NHANES = National Health and Nutrition Examination Survey; U.S. = United States.

* Indicates an intake estimate that may not be statistically reliable, as the sample size does not meet the minimum reporting requirements (mean n<30; 90th percentile n<80).

Table B-5 Estimated Daily Per Kilogram Body Weight Intake of Erythritol from Individual Proposed Food-Uses by Female Adults Aged 20 Years and Over within the U.S. (2013-2014 NHANES Data)

Food-Use Category	% Contribution to Total Mean Intake	Per Capita Intake (mg/kg bw/day)		Consumer-Only Intake (mg/kg bw/day)			
		Mean	90 th Percentile	%	n	Mean	90 th Percentile
All	100	398	815	98.3	2,323	405	817
Baked Goods and Baking Mixes (excluding regular bread)	16.4	65	184	62.5	1,493	104	244
Bars (Granola, High Protein)	1.6	6	20	10.6	207	60	119
Cakes	6.6	26	97	15.7	388	168	336
Cookies	5.3	21	70	33.4	765	63	121
Alcoholic Beverages (Lite Beer, Coolers)	3.4	14	na	4.5	95	303	846
Flavored Quenchers	1.6	6	na	3.3	72	187	286*
Reduced- and Low-Calorie Carbonated and Non-Carbonated Beverages	16.7	67	230	27.7	548	240	579
Hot Cereal – Oatmeal (Instant or Cooked)	1.6	6	na	9.8	281	66	119
Ready-to-Eat Cereals	10.1	40	146	31.0	707	129	254
Chewing Gum	0.3	1	na	3.0	84	36	67
BBQ Sauce	0.7	3	na	8.4	202	33	71
Tomato Sauce	1.0	4	14	21.5	452	18	40
Imitation Dairy Drinks (Soy, almond, cashew, coconut, and other plant-based)	2.7	11	na	7.7	182	142	336
Non-Dairy Toppings	<0.1	<1*	na	1.1	26	12*	24*
Low Calorie Salad Dressings	0.7	3	na	8.8	178	31	70
Frozen Desserts (Regular Ice Cream, Soft Serve, Sorbet, Frozen Yogurt)	6.0	24	83	25.0	546	95	215
Fruit-Based Slushies	0.1	<1	na	1.1	37	22	43*
Fillings (Fruit, Custard, Cream, Pudding)	0	na	na	0	0	na	na
Puddings (Instant, Phosphate Set)	0.7	3	na	2.9	59	90	178*
Hard Candy (Mints, Pressed, Candies, Cough Drops)	2.4	10	na	7.0	136	139	325
Jams and Jellies	0.5	2	2	10.1	226	19	35
Dairy drinks (Chocolate and Flavored Milks)	2.2	9	na	8.7	222	100	183
Yogurt	3.8	15	65	20.2	410	75	137
Fruit-Based Smoothies	1.5	6	na	4.8	99	123	230
Salty Snacks	3.1	13	39	35.7	724	35	70.2
Fruit Novelty Snacks (e.g., fruit peel, fruit candy bar, fruit leathers, fruit creams, fruit snack candy, gummy fruits)	0.4	2*	na	1.2	25	131*	294*

Table B-5 Estimated Daily Per Kilogram Body Weight Intake of Erythritol from Individual Proposed Food-Uses by Female Adults Aged 20 Years and Over within the U.S. (2013-2014 NHANES Data)

Food-Use Category	% Contribution to Total Mean Intake	Per Capita Intake (mg/kg bw/day)		Consumer-Only Intake (mg/kg bw/day)			
		Mean	90 th Percentile	%	n	Mean	90 th Percentile
Non-Chocolate Candies	2.7	11	na	9.2	217	119	306
Soft Chocolate Candies	5.5	22	70	26.0	543	84	183
Sugar Substitutes	1.3	5	16	18.5	412	27	63
Canned Fruit (Syrup)	0.8	3	na	6.3	148	49	100
Regular or Low-Calorie Syrups or Toppings	0.4	2	na	3.6	74	48	88*

bw = body weight; n = sample size; na = not available; NHANES = National Health and Nutrition Examination Survey; U.S. = United States.

* Indicates an intake estimate that may not be statistically reliable, as the sample size does not meet the minimum reporting requirements (mean n<30; 90th percentile n<80).

Table B-6 Estimated Daily Per Kilogram Body Weight Intake of Erythritol from Individual Proposed Food-Uses by Male Adults Aged 20 Years and Over within the U.S. (2013-2014 NHANES Data)

Food-Use Category	% Contribution to Total Mean Intake	Per Capita Intake (mg/kg bw/day)		Consumer-Only Intake (mg/kg bw/day)			
		Mean	90 th Percentile	%	n	Mean	90 th Percentile
All	100	403	805	97.2	2,026	415	815
Baked Goods and Baking Mixes (excluding regular bread)	17.7	71	210	61.9	1,269	115	259
Bars (Granola, High Protein)	1.4	6	21	12.2	185	48	90
Cakes	5.6	23	81	14.5	320	156	335
Cookies	4.6	19	62	30.8	626	61	118
Alcoholic Beverages (Lite Beer, Coolers)	8.2	33	75	11.2	223	294	549
Flavored Quenchers	4.0	16	na	7.9	160	202	414
Reduced- and Low-Calorie Carbonated and Non-Carbonated Beverages	14.6	59	198	27.0	465	218	514
Hot Cereal – Oatmeal (Instant or Cooked)	1.4	5	na	7.3	197	75	175
Ready-to-Eat Cereals	11.5	47	173	28.6	569	163	310
Chewing Gum	0.2	1	na	2.9	48	25	47*
BBQ Sauce	1.0	4	11	12.2	213	33	73
Tomato Sauce	1.4	6	17	24.6	529	23	47
Imitation Dairy Drinks (Soy, almond, cashew, coconut, and other plant-based)	1.4	6	na	4.6	100	124	275
Non-Dairy Toppings	<0.1	<1*	na	1.3	11	14*	32*
Low Calorie Salad Dressings	0.4	1	na	3.9	103	37	72
Frozen Desserts (Regular Ice Cream, Soft Serve, Sorbet, Frozen Yogurt)	6.2	25	96	24.1	443	103	191
Fruit-Based Slushies	0.1	<1*	na	2.1	26	15*	21*
Fillings (Fruit, Custard, Cream, Pudding)	<0.1	<1*	na	0.2	1	24*	24*
Puddings (Instant, Phosphate Set)	0.8	3	na	2.3	30	137	258*
Hard Candy (Mints, Pressed, Candies, Cough Drops)	1.0	4	na	2.8	74	148	309*
Jams and Jellies	0.6	3	6	11.5	235	22	39
Dairy drinks (Chocolate and Flavored Milks)	1.9	8	na	8.8	174	86	170
Yogurt	2.0	8	26	11.6	224	71	137
Fruit-Based Smoothies	0.9	3	na	3.2	61	109	183*
Salty Snacks	3.1	13	41	31.1	564	40	81
Fruit Novelty Snacks (e.g., fruit peel, fruit candy bar, fruit leathers, fruit creams, fruit snack candy, gummy fruits)	0.5	2*	na	1.3	25	152*	241*

Table B-6 Estimated Daily Per Kilogram Body Weight Intake of Erythritol from Individual Proposed Food-Uses by Male Adults Aged 20 Years and Over within the U.S. (2013-2014 NHANES Data)

Food-Use Category	% Contribution to Total Mean Intake	Per Capita Intake (mg/kg bw/day)		Consumer-Only Intake (mg/kg bw/day)			
		Mean	90 th Percentile	%	n	Mean	90 th Percentile
Non-Chocolate Candies	3.0	12	na	7.7	139	156	406
Soft Chocolate Candies	5.1	20	68	21.2	411	97	201
Sugar Substitutes	0.7	3	7	11.4	243	25	55
Canned Fruit (Syrup)	0.5	2	na	4.2	84	45	78
Regular or Low-Calorie Syrups or Toppings	0.3	1	na	2.4	63	51	122*

bw = body weight; n = sample size; na = not available; NHANES = National Health and Nutrition Examination Survey; U.S. = United States.

* Indicates an intake estimate that may not be statistically reliable, as the sample size does not meet the minimum reporting requirements (mean n<30; 90th percentile n<80).

Table B-7 Estimated Daily Per Kilogram Body Weight Intake of Erythritol from Individual Proposed Food-Uses by the Total U.S. Population (2013-2014 NHANES Data)

Food-Use Category	% Contribution to Total Mean Intake	Per Capita Intake (mg/kg bw/day)		Consumer-Only Intake (mg/kg bw/day)			
		Mean	90 th Percentile	%	n	Mean	90 th Percentile
All	100	535	1,159	97.0	7,175	551	1,179
Baked Goods and Baking Mixes (excluding regular bread)	18.4	98	268	63.6	4,764	155	354
Bars (Granola, High Protein)	1.5	8	23	11.6	665	67	129
Cakes	5.1	28	85	14.2	1,046	194	414
Cookies	5.4	29	90	34.0	2,524	85	193
Alcoholic Beverages (Lite Beer, Coolers)	3.2	17	na	5.7	322	295	679
Flavored Quenchers	3.4	18	na	7.2	519	253	517
Reduced- and Low-Calorie Carbonated and Non-Carbonated Beverages	10.2	55	186	24.6	1,494	222	514
Hot Cereal – Oatmeal (Instant or Cooked)	1.2	7	na	7.8	667	85	175
Ready-to-Eat Cereals	12.6	67	219	35.3	2,751	191	388
Chewing Gum	0.2	1	na	2.9	240	39	72.6
BBQ Sauce	0.6	3	na	9.4	653	36	75
Tomato Sauce	1.4	8	20	25.1	1,848	31	64
Imitation Dairy Drinks (Soy, almond, cashew, coconut, and other plant-based)	2.2	12	na	5.4	377	215	435
Non-Dairy Toppings	<0.1	<1	na	0.9	40	14	34*
Low Calorie Salad Dressings	0.4	2	na	5.8	377	36	86
Frozen Desserts (Regular Ice Cream, Soft Serve, Sorbet, Frozen Yogurt)	5.9	32	113	25.0	1,682	126	263
Fruit-Based Slushies	0.2	1	na	3.2	255	39	80
Fillings (Fruit, Custard, Cream, Pudding)	<0.1	<1*	na	0.1	2	25*	24*
Puddings (Instant, Phosphate Set)	0.6	3	na	2.3	137	133	302
Hard Candy (Mints, Pressed, Candies, Cough Drops)	3.0	16	na	6.5	509	245	578
Jams and Jellies	0.7	3	6	11.3	832	31	68
Dairy drinks (Chocolate and Flavored Milks)	4.0	22	69	13.7	1,216	157	318
Yogurt	3.3	18	60	16.6	1,117	106	207
Fruit-Based Smoothies	1.0	5	na	4.0	279	133	248
Salty Snacks	3.3	18	54	36.0	2,555	49	110
Fruit Novelty Snacks (e.g., fruit peel, fruit candy bar, fruit leathers, fruit creams, fruit snack candy, gummy fruits)	2.1	12	na	3.4	314	335	579
Non-Chocolate Candies	3.5	19	na	9.8	728	189	479

Table B-7 Estimated Daily Per Kilogram Body Weight Intake of Erythritol from Individual Proposed Food-Uses by the Total U.S. Population (2013-2014 NHANES Data)

Food-Use Category	% Contribution to Total Mean Intake	Per Capita Intake (mg/kg bw/day)		Consumer-Only Intake (mg/kg bw/day)			
		Mean	90 th Percentile	%	n	Mean	90 th Percentile
Soft Chocolate Candies	4.4	23	69	21.9	1,418	107	224
Sugar Substitutes	0.6	3	6	11.4	673	27	56
Canned Fruit (Syrup)	1.1	6	na	6.7	514	90	190
Regular or Low-Calorie Syrups or Toppings	0.5	3	na	4.1	336	64	125

bw = body weight; n = sample size; na = not available; NHANES = National Health and Nutrition Examination Survey; U.S. = United States.

* Indicates an intake estimate that may not be statistically reliable, as the sample size does not meet the minimum reporting requirements (mean n<30; 90th percentile n<80).

Appendix C
Representative Food Codes for Proposed Food-Uses of Erythritol in the
U.S. (2013-2014 NHANES Data)

Representative Food Codes for Proposed Beverage-Uses of Erythritol in the U.S. (U.S. NHANES 2013-2014)

Baked Goods and Baking Mixes (Excluding Regular Bread)

[Erythritol] = 15%

51160110	Roll, sweet, cinnamon bun, frosted
51160100	Roll, sweet, cinnamon bun, no frosting
51161050	Roll, sweet, frosted
51160000	Roll, sweet, no frosting
51161250	Roll, sweet, no topping, Mexican (Pan Dulce)
51161270	Roll, sweet, sugar topping, Mexican (Pan Dulce)
51161020	Roll, sweet, with fruit, frosted
51161000	Roll, sweet, with fruit, no frosting
51161280	Roll, sweet, with raisins and icing, Mexican (Pan Dulce)
52208010	Corn pone, baked
52208020	Corn pone, fried
52206010	Cornbread muffin, stick, round
52206060	Cornbread muffin, stick, round, made from home recipe
52204000	Cornbread stuffing
52202060	Cornbread, made from home recipe
52201000	Cornbread, prepared from mix
52220110	Cornmeal bread, Dominican style (Arepa Dominicana)
52208760	Gordita/sope shell, plain, no filling
52209010	Hush puppy
52211010	Johnnycake
52213010	Spoonbread
52215300	Taco shell, corn
52215350	Taco shell, flour
52215100	Tortilla, corn
52215200	Tortilla, flour (wheat)
52215000	Tortilla, NFS
52215260	Tortilla, whole wheat
52304040	Muffin, bran with fruit, lowfat
52306700	Muffin, carrot
52306300	Muffin, cheese
52302600	Muffin, chocolate
52302500	Muffin, chocolate chip
52302010	Muffin, fruit
52302020	Muffin, fruit, low fat
52301000	Muffin, NFS
52304150	Muffin, oat bran
52304100	Muffin, oatmeal

52306010 Muffin, plain
 52306500 Muffin, pumpkin
 52303500 Muffin, wheat
 52304010 Muffin, wheat bran
 52304000 Muffin, whole grain
 52303010 Muffin, whole wheat
 52306550 Muffin, zucchini
 53344300 Dessert pizza
 53344200 Mixed fruit tart filled with custard or cream cheese
 53391000 Pie shell
 53391150 Pie shell, chocolate wafer
 53391100 Pie shell, graham cracker
 53382000 Pie, chocolate-marshmallow
 53300180 Pie, fried, NFS
 53300170 Pie, individual size or tart, NFS
 53300100 Pie, NFS
 53385500 Pie, oatmeal
 53385000 Pie, pecan
 53385070 Pie, pecan, individual size or tart
 53386250 Pie, pudding, chocolate, with chocolate coating, individual size
 53347600 Pie, squash
 53360000 Pie, sweet potato
 53391200 Vanilla wafer dessert base
 53420300 Air filled fritter or fried puff, without syrup, Puerto Rican style (Bunuelos de viento)
 53400200 Blintz, cheese-filled
 53452450 Cheese pastry puffs
 53420250 Cream puff, no filling or icing
 53430250 Crepe suzette
 53452150 Pastry, Chinese, made with rice flour
 53452170 Pastry, cookie type, fried
 53452200 Pastry, Italian, with cheese
 53452500 Pastry, mainly flour and water, fried
 53452400 Pastry, puff
 53420410 Sopaipilla with syrup or honey
 53420400 Sopaipilla, without syrup or honey
 53440600 Strudel, cheese
 53430700 Tamale, sweet
 53420310 Wheat flour fritter, without syrup
 53500100 Breakfast pastry, NFS
 53530000 Breakfast tart
 53530010 Breakfast tart, lowfat
 53520200 Churros
 53520600 Cruller, NFS

53510000 Danish pastry, plain or spice
 53520500 Doughnut, Asian
 53520110 Doughnut, cake type
 53520140 Doughnut, cake type, chocolate covered
 53520150 Doughnut, cake type, chocolate covered, dipped in peanuts
 53520120 Doughnut, chocolate, cake type
 53520160 Doughnut, chocolate, cake type, with chocolate icing
 53521120 Doughnut, chocolate, raised or yeast
 53521100 Doughnut, chocolate, raised or yeast, with chocolate icing
 53520000 Doughnut, NS as to cake or yeast
 53521110 Doughnut, raised or yeast
 53521130 Doughnut, raised or yeast, chocolate covered
 53520700 French cruller
 54001000 Crackers, NS as to sweet or nonsweet
 54102060 Crackers, Cuban
 54102070 Crackers, Cuca
 54102010 Crackers, graham
 54102020 Crackers, graham, chocolate covered
 54102110 Crackers, graham, fat free
 54102100 Crackers, graham, lowfat
 54102200 Crackers, graham, sandwich-type, with filling
 54102080 Crackers, graham, with raisins
 54102050 Crackers, oatmeal
 54204010 Cracker, 100% whole wheat, low sodium
 54210010 Cracker, multigrain, low sodium
 54205010 Cracker, snack, low sodium
 54205100 Cracker, snack, reduced fat, reduced sodium
 54201010 Crackers, matzo, low sodium
 54202010 Crackers, saltine, low sodium
 54203010 Crackers, toast thins (rye, wheat, white flour), low sodium
 54206010 Puffed rice cake without salt
 54337000 Cracker, 100% whole wheat
 54337050 Cracker, 100% whole wheat, reduced fat
 54304000 Cracker, cheese
 54304100 Cracker, cheese, reduced fat
 54304150 Cracker, cheese, whole grain
 54340100 Cracker, gluten free
 54304500 Cracker, high fiber, no added fat
 54328200 Cracker, sandwich-type, cheese-filled
 54328100 Cracker, sandwich-type, peanut butter filled
 54328110 Cracker, sandwich-type, peanut butter filled, reduced fat
 54328120 Cracker, sandwich-type, peanut butter filled, whole grain
 54301000 Cracker, snack

54301200 Cracker, snack, fat free
54301100 Cracker, snack, reduced fat
54350000 Crackers, baby food
54339000 Crackers, corn
54327950 Crackers, cylindrical, peanut-butter filled
54307000 Crackers, matzo
54308000 Crackers, milk
54326000 Crackers, multigrain, made with whole wheat, wheat, oat, and other flours
54309000 Crackers, oat
54313000 Crackers, oyster
54319000 Crackers, rice
54325000 Crackers, saltine
54325010 Crackers, saltine, fat free
54325050 Crackers, saltine, whole wheat
54328000 Crackers, sandwich-type, NFS
54334000 Crackers, toast thins (rye, pumpernickel, white flour)
54336000 Crackers, water biscuits
54338000 Crackers, wheat
54338100 Crackers, wheat, reduced fat
54322000 Crispbread, rye, no added fat
54305000 Crispbread, wheat, no added fat
54319020 Popcorn cake
54319010 Puffed rice cake
54319200 Puffed wheat cake
54318500 Rice cake, cracker-type
54319500 Rice paper
55105000 Pancakes, buckwheat
55105100 Pancakes, cornmeal
55106000 Pancakes, gluten free
55101000 Pancakes, plain
55101020 Pancakes, plain, fat free
55101015 Pancakes, plain, reduced fat
55101010 Pancakes, reduced calorie, high fiber
55105400 Pancakes, rye
55105300 Pancakes, sour dough
55105200 Pancakes, whole wheat
55105210 Pancakes, whole wheat, fat free
55105205 Pancakes, whole wheat, reduced fat
55103100 Pancakes, with chocolate chips
55103000 Pancakes, with fruit
55203600 Waffle, chocolate chip
55204000 Waffle, cornmeal
55203000 Waffle, fruit

55208000 Waffle, gluten free
 55207000 Waffle, multi-bran
 55203500 Waffle, nut and honey
 55206000 Waffle, oat bran
 55201000 Waffle, plain
 55211000 Waffle, plain, fat free
 55211050 Waffle, plain, lowfat
 55202000 Waffle, wheat, bran, or multigrain
 55205000 Waffle, whole wheat or whole grain
 55212000 Waffle, whole wheat, lowfat
 55310100 Bread fritters, Puerto Rican style (Torrejas gallegas, Galician fritters)
 55301050 French toast sticks, plain
 55301000 French toast, plain
 55401000 Crepe, plain
 55502000 Flour and water gravy
 55501000 Flour and water patty
 55610200 Dumpling, fried, Puerto Rican style
 55610300 Dumpling, plain
 55701000 Cake made with glutinous rice
 55703000 Cake made with glutinous rice and dried beans
 55702000 Cake or pancake made with rice flour and/or dried beans
 55702100 Dosa (Indian), plain
 55801000 Funnel cake with sugar
 55801010 Funnel cake with sugar and fruit

Adjusted for a recipe factor of 5.76 to 67.5%

[Erythritol] = 0.86 to 10.13%

13210710 Pudding, Indian (milk, molasses and cornmeal-based pudding)
 21104120 Beef steak, battered, fried, lean and fat eaten
 21104130 Beef steak, battered, fried, lean only eaten
 21104110 Beef steak, battered, fried, NS as to fat eaten
 21103120 Beef steak, breaded or floured, baked or fried, lean and fat eaten
 21103130 Beef steak, breaded or floured, baked or fried, lean only eaten
 21103110 Beef steak, breaded or floured, baked or fried, NS as to fat eaten
 21500200 Ground beef or patty, breaded, cooked
 22002100 Pork, ground or patty, breaded, cooked
 22000310 Pork, NS as to cut, breaded or floured, fried, lean and fat eaten
 22000320 Pork, NS as to cut, breaded or floured, fried, lean only eaten
 22000300 Pork, NS as to cut, breaded or floured, fried, NS as to fat eaten
 22001000 Pork, pickled, NS as to cut
 22101410 Pork chop, battered, fried, lean and fat eaten
 22101420 Pork chop, battered, fried, lean only eaten

22101400 Pork chop, battered, fried, NS as to fat eaten
 22101140 Pork chop, breaded or floured, broiled or baked, lean and fat eaten
 22101150 Pork chop, breaded or floured, broiled or baked, lean only eaten
 22101130 Pork chop, breaded or floured, broiled or baked, NS as to fat eaten
 22101310 Pork chop, breaded or floured, fried, lean and fat eaten
 22101320 Pork chop, breaded or floured, fried, lean only eaten
 22101300 Pork chop, breaded or floured, fried, NS as to fat eaten
 22201060 Pork steak or cutlet, battered, fried, lean and fat eaten
 22201070 Pork steak or cutlet, battered, fried, lean only eaten
 22201050 Pork steak or cutlet, battered, fried, NS as to fat eaten
 22201310 Pork steak or cutlet, breaded or floured, broiled or baked, lean and fat eaten
 22201320 Pork steak or cutlet, breaded or floured, broiled or baked, lean only eaten
 22201300 Pork steak or cutlet, breaded or floured, broiled or baked, NS as to fat eaten
 22201410 Pork steak or cutlet, breaded or floured, fried, lean and fat eaten
 22201420 Pork steak or cutlet, breaded or floured, fried, lean only eaten
 22201400 Pork steak or cutlet, breaded or floured, fried, NS as to fat eaten
 22300160 Ham, breaded or floured, fried, lean and fat eaten
 22300170 Ham, breaded or floured, fried, lean only eaten
 22300150 Ham, breaded or floured, fried, NS as to fat eaten
 23321250 Venison/deer steak, breaded or floured, cooked, NS as to cooking method
 27560300 Corn dog (frankfurter or hot dog with cornbread coating)
 51115010 Bread, cornmeal and molasses
 51115020 Bread, cornmeal and molasses, toasted
 51161030 Roll, sweet, with fruit, frosted, diet
 53301750 Pie, apple, diet
 53301080 Pie, apple, fried pie
 53301070 Pie, apple, individual size or tart
 53301500 Pie, apple, one crust
 53301000 Pie, apple, two crust
 53340000 Pie, apple-sour cream
 53302080 Pie, apricot, fried pie
 53302070 Pie, apricot, individual size or tart
 53302000 Pie, apricot, two crust
 53341000 Pie, banana cream
 53341070 Pie, banana cream, individual size or tart
 53303570 Pie, berry, not blackberry, blueberry, boysenberry, huckleberry, raspberry, or strawberry, individual size or tart
 53303510 Pie, berry, not blackberry, blueberry, boysenberry, huckleberry, raspberry, or strawberry; one crust
 53303500 Pie, berry, not blackberry, blueberry, boysenberry, huckleberry, raspberry, or strawberry; two crust
 53373000 Pie, black bottom
 53303070 Pie, blackberry, individual size or tart

53303000 Pie, blackberry, two crust
53304070 Pie, blueberry, individual size or tart
53304050 Pie, blueberry, one crust
53304000 Pie, blueberry, two crust
53341500 Pie, buttermilk
53305080 Pie, cherry, fried pie
53305070 Pie, cherry, individual size or tart
53340500 Pie, cherry, made with cream cheese and sour cream
53305010 Pie, cherry, one crust
53305000 Pie, cherry, two crust
53341750 Pie, chess
53371000 Pie, chiffon, chocolate
53370000 Pie, chiffon, not chocolate
53342000 Pie, chocolate cream
53342070 Pie, chocolate cream, individual size or tart
53343000 Pie, coconut cream
53343070 Pie, coconut cream, individual size or tart
53344000 Pie, custard
53344070 Pie, custard, individual size or tart
53305700 Pie, lemon (not cream or meringue)
53305720 Pie, lemon (not cream or meringue), individual size or tart
53345000 Pie, lemon cream
53345070 Pie, lemon cream, individual size or tart
53381000 Pie, lemon meringue
53381070 Pie, lemon meringue, individual size or tart
53305750 Pie, lemon, fried pie
53306070 Pie, mince, individual size or tart
53306000 Pie, mince, two crust
53307080 Pie, peach, fried pie
53307070 Pie, peach, individual size or tart
53307050 Pie, peach, one crust
53307000 Pie, peach, two crust
53346000 Pie, peanut butter cream
53307570 Pie, pear, individual size or tart
53307500 Pie, pear, two crust
53346500 Pie, pineapple cream
53308070 Pie, pineapple, individual size or tart
53308000 Pie, pineapple, two crust
53308300 Pie, plum, two crust
53308500 Pie, prune, one crust
53386000 Pie, pudding, flavors other than chocolate
53386050 Pie, pudding, flavors other than chocolate, individual size or tart
53386500 Pie, pudding, flavors other than chocolate, with chocolate coating, individual size

53347000 Pie, pumpkin
 53347070 Pie, pumpkin, individual size or tart
 53309070 Pie, raisin, individual size or tart
 53309000 Pie, raisin, two crust
 53347100 Pie, raspberry cream
 53310000 Pie, raspberry, one crust
 53310050 Pie, raspberry, two crust
 53311070 Pie, rhubarb, individual size or tart
 53311050 Pie, rhubarb, one crust
 53311000 Pie, rhubarb, two crust
 53390000 Pie, shoo-fly
 53347500 Pie, sour cream, raisin
 53348000 Pie, strawberry cream
 53348070 Pie, strawberry cream, individual size or tart
 53314000 Pie, strawberry, individual size or tart
 53312000 Pie, strawberry, one crust
 53313000 Pie, strawberry-rhubarb, two crust
 53390100 Pie, tofu with fruit
 53387000 Pie, Toll house chocolate chip
 53365000 Pie, vanilla cream
 53366000 Pie, yogurt, frozen
 53441110 Baklava
 53441210 Basbousa (semolina dessert dish)
 53400300 Blintz, fruit-filled
 53410100 Cobbler, apple
 53410200 Cobbler, apricot
 53410300 Cobbler, berry
 53410500 Cobbler, cherry
 53410800 Cobbler, peach
 53410850 Cobbler, pear
 53410860 Cobbler, pineapple
 53410880 Cobbler, plum
 53410900 Cobbler, rhubarb
 53420200 Cream puff, eclair, custard or cream filled, iced
 53420210 Cream puff, eclair, custard or cream filled, iced, reduced fat
 53420100 Cream puff, eclair, custard or cream filled, not iced
 53420000 Cream puff, eclair, custard or cream filled, NS as to icing
 53430100 Crepe, dessert type, chocolate-filled
 53430200 Crepe, dessert type, fruit-filled
 53430300 Crepe, dessert type, ice cream-filled
 53430000 Crepe, dessert type, NS as to filling
 53415100 Crisp, apple, apple dessert
 53415300 Crisp, blueberry

53415400 Crisp, cherry
 53415500 Crisp, peach
 53415600 Crisp, rhubarb
 53453170 Empanada, Mexican turnover, pumpkin
 53453150 Empanada, Mexican turnover, fruit-filled
 53415120 Fritter, apple
 53415200 Fritter, banana
 53415220 Fritter, berry
 53452120 Pastry, Asian, made with bean or lotus seed paste filling (baked)
 53452130 Pastry, Asian, made with bean paste and salted egg yolk filling (baked)
 53452100 Pastry, fruit-filled
 53452420 Pastry, puff, custard or cream filled, iced or not iced
 53440000 Strudel, apple
 53440300 Strudel, berry
 53440800 Strudel, cheese and fruit
 53440500 Strudel, cherry
 53440700 Strudel, peach
 53440750 Strudel, pineapple
 53430750 Tamale, sweet, with fruit
 53450000 Turnover or dumpling, apple
 53450300 Turnover or dumpling, berry
 53450500 Turnover or dumpling, cherry
 53450800 Turnover or dumpling, lemon
 53451000 Turnover or dumpling, peach
 53451500 Turnover, guava
 53451750 Turnover, pumpkin
 53511000 Danish pastry, with cheese
 53510100 Danish pastry, with fruit
 53521220 Doughnut, chocolate cream-filled
 53521210 Doughnut, custard-filled
 53521230 Doughnut, custard-filled, with icing
 53521140 Doughnut, jelly
 58100300 Burrito with beans and rice, meatless
 58100320 Burrito with beans, meatless
 58100330 Burrito with beans, rice, and sour cream, meatless
 58100200 Burrito with chicken
 58100220 Burrito with chicken and beans
 58100235 Burrito with chicken and sour cream
 58100255 Burrito with chicken, beans, and rice
 58100245 Burrito with chicken, beans, and sour cream
 58100260 Burrito with chicken, beans, rice, and sour cream
 58100100 Burrito with meat
 58100120 Burrito with meat and beans

58100125 Burrito with meat and beans, from fast food
 58100135 Burrito with meat and sour cream
 58100160 Burrito with meat, beans, and rice
 58100140 Burrito with meat, beans, and sour cream
 58100145 Burrito with meat, beans, and sour cream, from fast food
 58100165 Burrito with meat, beans, rice, and sour cream
 58100000 Burrito, taco, or quesadilla with egg
 58100010 Burrito, taco, or quesadilla with egg and breakfast meat
 58100013 Burrito, taco, or quesadilla with egg and breakfast meat, from fast food
 58100005 Burrito, taco, or quesadilla with egg and potato
 58100020 Burrito, taco, or quesadilla with egg, beans, and breakfast meat
 58100015 Burrito, taco, or quesadilla with egg, potato, and breakfast meat
 58100017 Burrito, taco, or quesadilla with egg, potato, and breakfast meat, from fast food
 58128110 Chicken cornbread
 58104530 Chimichanga with chicken
 58104550 Chimichanga with chicken and sour cream
 58104500 Chimichanga with meat
 58104520 Chimichanga, meatless
 58104540 Chimichanga, meatless, with sour cream
 58118210 Cornmeal coconut dessert, Puerto Rican style (Harina de maiz con coco)
 58128120 Cornmeal dressing with chicken or turkey and vegetables
 58117110 Cornmeal fritter, Puerto Rican style (Arepá; P.R. arepita)
 58117210 Cornmeal stick, Puerto Rican style (Sorullos / Sorullitos de maiz)
 58120120 Crepe, filled with beef, pork, fish and/or poultry, no sauce on top
 58120110 Crepes, filled with meat, fish, or poultry, with sauce
 58100725 Enchilada with beans, green-chile or enchilada sauce
 58100720 Enchilada with beans, meatless, red-chile or enchilada sauce
 58100625 Enchilada with chicken and beans, green-chile or enchilada sauce
 58100620 Enchilada with chicken and beans, red-chile or enchilada sauce
 58100635 Enchilada with chicken, green-chile or enchilada sauce
 58100630 Enchilada with chicken, red-chile or enchilada sauce
 58100525 Enchilada with meat and beans, green-chile or enchilada sauce
 58100520 Enchilada with meat and beans, red-chile or enchilada sauce
 58100535 Enchilada with meat, green-chile or enchilada sauce
 58100530 Enchilada with meat, red-chile or enchilada sauce
 58100805 Enchilada, just cheese, meatless, no beans, green-chile or enchilada sauce
 58100800 Enchilada, just cheese, meatless, no beans, red-chile or enchilada sauce
 58105000 Fajita with chicken and vegetables
 58105050 Fajita with meat and vegetables
 58101800 Ground beef with tomato sauce and taco seasonings on a cornbread crust
 58104730 Quesadilla with meat
 58104750 Quesadilla with vegetables
 58104770 Quesadilla with vegetables and chicken

58104760 Quesadilla with vegetables and meat
 58104720 Quesadilla, just cheese, from fast food
 58104710 Quesadilla, just cheese, meatless
 58101610 Soft taco with beans
 58101615 Soft taco with beans and sour cream
 58101450 Soft taco with chicken
 58101625 Soft taco with chicken and beans
 58101460 Soft taco with chicken and sour cream
 58101635 Soft taco with chicken, beans, and sour cream
 58101555 Soft taco with fish
 58101350 Soft taco with meat and sour cream
 58101357 Soft taco with meat and sour cream, from fast food
 58101630 Soft taco with meat, beans, and sour cream
 58115110 Tamale casserole, Puerto Rican style (Tamales en cazuela)
 58306010 Beef enchilada dinner, NFS (frozen meal)
 58306020 Beef enchilada, chili gravy, rice, refried beans (frozen meal)
 58306070 Cheese enchilada (frozen meal)
 58306500 Chicken burritos (diet frozen meal)
 58306100 Chicken enchilada (diet frozen meal)
 58421080 Sopa de tortilla, Mexican style tortilla soup, home recipe
 63107410 Banana, batter-dipped, fried
 75415021 Onion rings, from fresh, batter-dipped, baked or fried
 75415022 Onion rings, from frozen, batter-dipped, baked or fried
 75415020 Onion rings, NS as to form, batter-dipped, baked or fried
 75418000 Squash, summer, yellow or green, breaded or battered, baked
 75418010 Squash, summer, yellow or green, breaded or battered, fried

Bars (Granola, High Protein)

[Erythritol] = 15%

53720100 Balance Original Bar
 53714520 Breakfast bar, cereal crust with fruit filling, lowfat
 53714510 Breakfast bar, date, with yogurt coating
 53714500 Breakfast bar, NFS
 53720200 Clif Bar
 53710400 Fiber One Chewy Bar
 53714220 Granola bar with nuts, chocolate-coated
 53714200 Granola bar, chocolate-coated, NFS
 53714250 Granola bar, coated with non-chocolate coating
 53714300 Granola bar, high fiber, coated with non-chocolate yogurt coating
 53712200 Granola bar, lowfat, NFS
 53712100 Granola bar, NFS
 53712210 Granola bar, nonfat

53714230 Granola bar, oats, nuts, coated with non-chocolate coating
 53713100 Granola bar, peanuts , oats, sugar, wheat germ
 53713000 Granola bar, reduced sugar, NFS
 53714210 Granola bar, with coconut, chocolate-coated
 53714400 Granola bar, with rice cereal
 53710800 Kashi GOLEAN Chewy Bars
 53710804 Kashi GOLEAN Crunchy Bars
 53710802 Kashi TLC Chewy Granola Bar
 53710806 Kashi TLC Crunchy Granola Bar
 53710500 Kellogg's Nutri-Grain Cereal Bar
 53710504 Kellogg's Nutri-Grain Fruit and Nut Bar
 53710502 Kellogg's Nutri-Grain Yogurt Bar
 53710700 Kellogg's Special K bar
 53710600 Milk 'n Cereal bar
 53710902 Nature Valley Chewy Granola Bar with Yogurt Coating
 53710900 Nature Valley Chewy Trail Mix Granola Bar
 53710906 Nature Valley Crunchy Granola Bar
 53710904 Nature Valley Sweet and Salty Granola Bar
 53729000 Nutrition bar or meal replacement bar, NFS
 53720300 PowerBar
 53711004 Quaker Chewy 25% Less Sugar Granola Bar
 53711002 Quaker Chewy 90 Calorie Granola Bar
 53711006 Quaker Chewy Dipp's Granola Bar
 53711000 Quaker Chewy Granola Bar
 53711100 Quaker Granola Bites
 53720400 Slim Fast Original Meal Bar
 53712000 Snack bar, oatmeal
 53720500 Snickers Marathon Protein bar
 53720610 South Beach Living High Protein Bar
 53720600 South Beach Living Meal Bar
 53720700 Tiger's Milk bar
 53720800 Zone Perfect Classic Crunch nutrition bar

Cakes

[Erythritol] = 25%

53102100 Cake or cupcake, applesauce, without icing or filling
 53102600 Cake or cupcake, banana, without icing or filling
 53104100 Cake or cupcake, carrot, without icing or filling
 53111000 Cake or cupcake, gingerbread
 53114000 Cake or cupcake, lemon, without icing or filling
 53115100 Cake or cupcake, marble, without icing or filling
 53100100 Cake or cupcake, NS as to type

53115310 Cake or cupcake, nut, without icing or filling
 53115410 Cake or cupcake, oatmeal
 53115450 Cake or cupcake, peanut butter
 53116500 Cake or cupcake, pumpkin, without icing or filling
 53116550 Cake or cupcake, raisin-nut
 53117100 Cake or cupcake, spice, without icing or filling
 53120270 Cake or cupcake, white, with icing or filling
 53120275 Cake or cupcake, white, without icing or filling
 53121270 Cake or cupcake, yellow, with icing or filling
 53121275 Cake or cupcake, yellow, without icing or filling
 53124110 Cake or cupcake, zucchini
 53101100 Cake, angel food, without icing or filling
 53104300 Cake, carrot, diet
 53105500 Cake, chocolate, with icing, diet
 53106500 Cake, cream, without icing or topping
 53110000 Cake, fruit cake, light or dark, holiday type cake
 53116270 Cake, pound, chocolate
 53116350 Cake, pound, Puerto Rican style (Ponque)
 53116390 Cake, pound, reduced fat, cholesterol free
 53116000 Cake, pound, without icing or filling
 53116650 Cake, Quezadilla, El Salvadorian style
 53116570 Cake, Ravani (made with farina)
 53116600 Cake, rice flour, without icing or filling
 53118300 Cake, sponge, chocolate
 53118100 Cake, sponge, without icing or filling
 53118410 Rum cake, without icing (Sopa Borracha)

Adjusted for a recipe factor of 25 to 73%

[Erythritol] = 6.25 to 18.25%

53102200 Cake or cupcake, applesauce, with icing or filling
 53102700 Cake or cupcake, banana, with icing or filling
 53102800 Cake or cupcake, black forest (chocolate-cherry)
 53104260 Cake or cupcake, carrot, with icing or filling
 53105270 Cake or cupcake, chocolate, devil's food or fudge, with icing or filling
 53105275 Cake or cupcake, chocolate, devil's food or fudge, without icing or filling
 53104400 Cake or cupcake, coconut, with icing or filling
 53105300 Cake or cupcake, German chocolate, with icing or filling
 53114100 Cake or cupcake, lemon, with icing or filling
 53115200 Cake or cupcake, marble, with icing or filling
 53115320 Cake or cupcake, nut, with icing or filling
 53116510 Cake or cupcake, pumpkin, with icing or filling
 53117200 Cake or cupcake, spice, with icing or filling

53101250 Cake, angel food, with fruit and icing or filling
 53101200 Cake, angel food, with icing or filling
 53103000 Cake, Boston cream pie
 53109300 Cake, Dobos Torte (non-chocolate layer cake with chocolate filling and icing)
 53112000 Cake, ice cream and cake roll, chocolate
 53112100 Cake, ice cream and cake roll, not chocolate
 53113000 Cake, jelly roll
 53116020 Cake, pound, with icing or filling
 53122080 Cake, shortcake, biscuit type, with fruit
 53122070 Cake, shortcake, biscuit type, with whipped cream and fruit
 53123080 Cake, shortcake, sponge type, with fruit
 53123070 Cake, shortcake, sponge type, with whipped cream and fruit
 53123500 Cake, shortcake, with whipped topping and fruit, diet
 53118200 Cake, sponge, with icing or filling
 53118500 Cake, torte
 53118550 Cake, tres leche
 53119000 Cake, upside down (all fruits)
 53104500 Cheesecake
 53104550 Cheesecake with fruit
 53104600 Cheesecake, chocolate
 53108200 Snack cake, chocolate, with icing or filling
 53108220 Snack cake, chocolate, with icing or filling, reduced fat and calories
 53109200 Snack cake, not chocolate, with icing or filling
 53109220 Snack cake, not chocolate, with icing or filling, reduced fat and calories
 53610100 Coffee cake, crumb or quick-bread type
 53610200 Coffee cake, crumb or quick-bread type, cheese-filled
 53610170 Coffee cake, crumb or quick-bread type, with fruit

Cookies

[Erythritol] = 15%

53211000 Cookie bar, with chocolate, nuts, and graham crackers
 53202000 Cookie, almond
 53240000 Cookie, animal
 53205260 Cookie, bar, with chocolate
 53203500 Cookie, biscotti (Italian sugar cookie)
 53204000 Cookie, brownie, NS as to icing
 53204100 Cookie, brownie, with icing or filling
 53204010 Cookie, brownie, without icing
 53241500 Cookie, butter or sugar
 53244010 Cookie, butter or sugar, with chocolate icing or filling
 53241600 Cookie, butter or sugar, with fruit and/or nuts
 53244020 Cookie, butter or sugar, with icing or filling other than chocolate

53205250 Cookie, butterscotch, brownie
 53209500 Cookie, chocolate and vanilla sandwich
 53206000 Cookie, chocolate chip
 53206100 Cookie, chocolate chip sandwich
 53206020 Cookie, chocolate chip, made from home recipe or purchased at a bakery
 53206030 Cookie, chocolate chip, reduced fat
 53260030 Cookie, chocolate chip, sugar free
 53207000 Cookie, chocolate or fudge
 53207020 Cookie, chocolate or fudge, reduced fat
 53209015 Cookie, chocolate sandwich
 53209020 Cookie, chocolate sandwich, reduced fat
 53210000 Cookie, chocolate wafer
 53206550 Cookie, chocolate, made with oatmeal and coconut (no-bake)
 53206500 Cookie, chocolate, made with rice cereal
 53209100 Cookie, chocolate, sandwich, with extra filling
 53207050 Cookie, chocolate, with chocolate filling or coating, fat free
 53209005 Cookie, chocolate, with icing or coating
 53215500 Cookie, coconut
 53222020 Cookie, cone shell, ice cream type, wafer or cake
 53220030 Cookie, fig bar
 53220040 Cookie, fig bar, fat free
 53222010 Cookie, fortune
 53223000 Cookie, gingersnaps
 53261000 Cookie, gluten free
 53210900 Cookie, graham cracker with chocolate and marshmallow
 53223100 Cookie, granola
 53224000 Cookie, ladyfinger
 53231000 Cookie, Lebkuchen
 53224250 Cookie, lemon bar
 53225000 Cookie, macaroon
 53226600 Cookie, marshmallow and peanut butter, with oat cereal (no-bake)
 53208200 Cookie, marshmallow pie, chocolate covered
 53208000 Cookie, marshmallow, chocolate-covered
 53226000 Cookie, marshmallow, with coconut
 53226500 Cookie, marshmallow, with rice cereal (no-bake)
 53226550 Cookie, marshmallow, with rice cereal and chocolate chips
 53228000 Cookie, meringue
 53230000 Cookie, molasses
 53231400 Cookie, multigrain, high fiber
 53201000 Cookie, NFS
 53233000 Cookie, oatmeal
 53233040 Cookie, oatmeal, reduced fat, NS as to raisins
 53260200 Cookie, oatmeal, sugar free

53233100 Cookie, oatmeal, with chocolate and peanut butter (no-bake)
 53233060 Cookie, oatmeal, with chocolate chips
 53233010 Cookie, oatmeal, with raisins
 53234000 Cookie, peanut butter
 53235000 Cookie, peanut butter sandwich
 53234250 Cookie, peanut butter with rice cereal (no-bake)
 53260600 Cookie, peanut butter, sugar free
 53234100 Cookie, peanut butter, with chocolate
 53235600 Cookie, Pfeffernusse
 53236000 Cookie, pizzelle (Italian style wafer)
 53236100 Cookie, pumpkin
 53237000 Cookie, raisin
 53251100 Cookie, rugelach
 53237500 Cookie, rum ball (no-bake)
 53260300 Cookie, sandwich, sugar free
 53239000 Cookie, shortbread
 53239010 Cookie, shortbread, reduced fat
 53260400 Cookie, sugar or plain, sugar free
 53242000 Cookie, sugar wafer
 53209010 Cookie, sugar wafer, chocolate-covered
 53260500 Cookie, sugar wafer, sugar free
 53246000 Cookie, tea, Japanese
 53242500 Cookie, toffee bar
 53247000 Cookie, vanilla wafer
 53247050 Cookie, vanilla wafer, reduced fat
 53247500 Cookie, vanilla with caramel, coconut, and chocolate coating
 53235500 Cookie, with peanut butter filling, chocolate-coated
 53270100 Cookies, Puerto Rican (Mantecaditos polvorones)
 53241510 Marie biscuit
 53239100 Pocky (Japanese snack)

Adjusted for a recipe factor of 65 to 72%

[Erythritol] = 9.75 to 10.80%

53240010 Cookie, animal, with frosting or icing
 53203000 Cookie, applesauce
 53204860 Cookie, brownie, fat free, NS as to icing
 53204840 Cookie, brownie, reduced fat, NS as to icing
 53220000 Cookie, fruit-filled bar
 53220010 Cookie, fruit-filled bar, fat free
 53233050 Cookie, oatmeal sandwich, with creme filling
 53233080 Cookie, oatmeal sandwich, with peanut butter and jelly filling
 53237010 Cookie, raisin sandwich, cream-filled

- 53238000 Cookie, sandwich-type, not chocolate or vanilla
- 53239050 Cookie, shortbread, with icing or filling
- 53243000 Cookie, vanilla sandwich
- 53243010 Cookie, vanilla sandwich, extra filling
- 53243050 Cookie, vanilla sandwich, reduced fat

Alcoholic Beverages (Lite Beer, Coolers)

[Erythritol] = 3.5%

- 93102000 Beer, light
- 93102200 Beer, light, higher alcohol
- 93102100 Beer, low carb
- 93404000 Wine cooler
- 93504100 Rum cooler

Flavored Quenchers

[Erythritol] = 3.5%

- 95320200 Gatorade G sports drink
- 95322200 Gatorade G2 sports drink, low calorie
- 95320500 Powerade sports drink
- 95322500 Powerade Zero sports drink, low calorie
- 95323000 Sports drink, low calorie
- 95321000 Sports drink, NFS

Adjusted for a reconstitution factor of 16

[Erythritol] = 56%

- 92900300 Sports drink, dry concentrate, not reconstituted

Reduced- and Low-Calorie Carbonated and Non-Carbonated Beverages

[Erythritol] = 3.5%

- 92307520 Iced Tea / Lemonade juice drink, diet
- 92307510 Iced Tea / Lemonade juice drink, light
- 92309030 Tea, iced, bottled, black, decaffeinated, diet
- 92309020 Tea, iced, bottled, black, diet
- 92309510 Tea, iced, bottled, green, diet
- 92308040 Tea, iced, brewed, black, decaffeinated, pre-sweetened with low calorie sweetener
- 92308010 Tea, iced, brewed, black, pre-sweetened with low calorie sweetener
- 92308540 Tea, iced, brewed, green, decaffeinated, pre-sweetened with low calorie sweetener
- 92308510 Tea, iced, brewed, green, pre-sweetened with low calorie sweetener
- 92305110 Tea, iced, instant, black, decaffeinated, pre-sweetened with low calorie sweetener
- 92305920 Tea, iced, instant, green, pre-sweetened with low calorie sweetener

92410250 Carbonated water, sweetened, with low-calorie or no-calorie sweetener
 92410820 Soft drink, chocolate flavored, diet
 92411620 Soft drink, cola, chocolate flavored, diet
 92410350 Soft drink, cola, decaffeinated, diet
 92410320 Soft drink, cola, diet
 92411610 Soft drink, cola, fruit or vanilla flavored, diet
 92410315 Soft drink, cola, reduced sugar
 92410420 Soft drink, cream soda, diet
 92410560 Soft drink, fruit flavored, caffeine containing, diet
 92410520 Soft drink, fruit flavored, diet, caffeine free
 92410620 Soft drink, ginger ale, diet
 92400100 Soft drink, NFS, diet
 92410400 Soft drink, pepper type, decaffeinated, diet
 92410370 Soft drink, pepper type, diet
 92410720 Soft drink, root beer, diet
 92550360 Apple juice beverage, 40-50% juice, light
 92552030 Capri Sun, fruit juice drink
 92550110 Cranberry juice drink, with high vitamin C, light
 92550620 Fruit flavored drink, diet
 92552010 Fruit flavored drink, powdered, reconstituted, diet
 92550610 Fruit flavored drink, with high vitamin C, diet
 92552000 Fruit flavored drink, with high vitamin C, powdered, reconstituted, diet
 92550040 Fruit juice drink, diet
 92550035 Fruit juice drink, light
 92550030 Fruit juice drink, with high vitamin C, light
 92550200 Grape juice drink, light
 92550370 Lemonade, fruit juice drink, light
 92550350 Orange juice beverage, 40-50% juice, light
 92550380 Pomegranate juice beverage, 40-50% juice, light
 92552020 Sunny D, reduced sugar
 92550400 Vegetable and fruit juice drink, with high vitamin C, diet
 92550405 Vegetable and fruit juice drink, with high vitamin C, light
 94100200 Water, bottled, sweetened, with low calorie sweetener
 94220215 Glaceau Vitamin Water Zero
 94220110 Propel Zero Calcium Water
 94220100 Propel Zero Water
 94210300 SoBe Life Water
 94220310 SoBe Life Water Zero
 95341000 FUZE Slenderize fortified low calorie fruit juice beverage
 95312400 Monster Energy Drink, Lo Carb
 95312500 Mountain Dew AMP Energy Drink, sugar-free
 95312550 No Fear Energy Drink, sugar-free
 95312555 NOS Energy Drink, sugar-free

95312600 Red Bull Energy Drink, sugar-free
95312700 Rockstar Energy Drink, sugar-free
95312800 Vault Zero Energy Drink

Adjusted for a recipe factor of 74.66%

[Erythritol] = 2.61%

93301191 Rum and diet cola
93301215 Vodka and diet cola
93301183 Whiskey and diet cola

Adjusted for a reconstitution factor of 16

[Erythritol] = 56%

92900200 Fruit flavored drink, powdered, not reconstituted, diet

Hot Cereal – Oatmeal (Instant or Cooked)

[Erythritol] = 3%

56203200 Oatmeal with fruit, cooked
56203110 Oatmeal with maple flavor, cooked
56203070 Oatmeal, cooked, instant, fat added in cooking
56203030 Oatmeal, cooked, instant, fat not added in cooking
56203223 Oatmeal, cooked, instant, made with milk, fat added in cooking
56203213 Oatmeal, cooked, instant, made with milk, fat not added in cooking
56203233 Oatmeal, cooked, instant, made with milk, NS as to fat added in cooking
56203080 Oatmeal, cooked, instant, NS as to fat added in cooking
56203000 Oatmeal, cooked, NS as to regular, quick or instant, fat not added in cooking
56202960 Oatmeal, cooked, NS as to regular, quick or instant; NS as to fat added in cooking
56203040 Oatmeal, cooked, NS as to regular, quick, or instant, fat added in cooking
56203060 Oatmeal, cooked, quick (1 or 3 minutes), fat added in cooking
56203020 Oatmeal, cooked, quick (1 or 3 minutes), fat not added in cooking
56203222 Oatmeal, cooked, quick (1 or 3 minutes), made with milk, fat added in cooking
56203212 Oatmeal, cooked, quick (1 or 3 minutes), made with milk, fat not added in cooking
56203232 Oatmeal, cooked, quick (1 or 3 minutes), made with milk, NS as to fat added in cooking
56202970 Oatmeal, cooked, quick (1 or 3 minutes), NS as to fat added in cooking
56203050 Oatmeal, cooked, regular, fat added in cooking
56203010 Oatmeal, cooked, regular, fat not added in cooking
56203221 Oatmeal, cooked, regular, made with milk, fat added in cooking
56203211 Oatmeal, cooked, regular, made with milk, fat not added in cooking
56203231 Oatmeal, cooked, regular, made with milk, NS as to fat added in cooking
56202980 Oatmeal, cooked, regular, NS as to fat added in cooking
56203540 Oatmeal, made with milk and sugar, Puerto Rican style

- 56203620 Oatmeal, multigrain, cooked, fat added in cooking
- 56203610 Oatmeal, multigrain, cooked, fat not added in cooking
- 56203600 Oatmeal, multigrain, cooked, NS as to fat added in cooking
- 56203220 Oatmeal, NS as to regular, quick, or instant, made with milk, fat added in cooking
- 56203210 Oatmeal, NS as to regular, quick, or instant, made with milk, fat not added in cooking
- 56203230 Oatmeal, NS as to regular, quick, or instant, made with milk, NS as to fat added in cooking

Ready-to-Eat Cereals

[Erythritol] = 30%

- 57000000 Cereal, NFS
- 57000050 Kashi cereal, NS as to ready to eat or cooked
- 57000100 Oat cereal, NFS
- 57101000 All-Bran
- 57110000 All-Bran Bran Buds, Kellogg's (formerly Bran Buds)
- 57102000 Alpen
- 57103000 Alpha-Bits
- 57103020 Alpha-bits with marshmallows
- 57103100 Apple Cinnamon Cheerios
- 57104000 Apple Jacks
- 57106060 Banana Nut Cheerios
- 57106050 Banana Nut Crunch Cereal (Post)
- 57106100 Basic 4
- 57106250 Berry Berry Kix
- 57106260 Berry Burst Cheerios
- 57106530 Blueberry Morning, Post
- 57107000 Booberry
- 57117000 Cap'n Crunch
- 57117500 Cap'n Crunch's Christmas Crunch
- 57119000 Cap'n Crunch's Crunch Berries
- 57120000 Cap'n Crunch's Peanut Butter Crunch
- 57100100 Cereal, ready-to-eat, NFS
- 57123000 Cheerios
- 57124000 Chex cereal, NFS
- 57124030 Chex Chocolate
- 57124050 Chex Cinnamon
- 57124100 Chocolate Cheerios
- 57124200 Chocolate flavored frosted puffed corn cereal
- 57124300 Chocolate Lucky Charms
- 57124900 Cinnabon cereal
- 57125000 Cinnamon Toast Crunch
- 57125010 Cinnamon Toast Crunch Reduced Sugar

57126000 Cocoa Krispies
 57127000 Cocoa Pebbles
 57128000 Cocoa Puffs
 57128005 Cocoa Puffs, reduced sugar
 57130000 Cookie-Crisp
 57132000 Corn Chex
 57135000 Corn flakes, Kellogg's
 57134000 Corn flakes, NFS
 57137000 Corn Puffs
 57139000 Count Chocula
 57143000 Cracklin' Oat Bran
 57143500 Cranberry Almond Crunch, Post
 57144000 Crisp Crunch
 57148000 Crispix
 57148500 Crispy Brown Rice Cereal
 57151000 Crispy Rice
 57131000 Crunchy Corn Bran, Quaker
 57125900 Honey Nut Clusters (formerly called Clusters)
 57208000 All-Bran Complete Wheat Flakes, Kellogg's
 57207000 Bran Flakes, NFS (formerly 40% Bran Flakes, NFS)
 57201900 Dora the Explorer Cereal
 57206000 Familia
 57206800 Fiber 7 Flakes, Health Valley
 57206700 Fiber One
 57206705 Fiber One Caramel Delight
 57206710 Fiber One Honey Clusters
 57206715 Fiber One Raisin Bran Clusters
 57211000 Frankenberry
 57213000 Froot Loops
 57213010 Froot Loops Marshmallow
 57213850 Frosted Cheerios
 57214000 Frosted Mini-Wheats
 57218000 Frosted Rice Krispies, Kellogg's
 57216000 Frosted rice, NFS
 57214100 Frosted Wheat Bites
 57215000 Frosty O's
 57221000 Fruit & Fibre (fiber) with dates, raisins, and walnuts
 57219000 Fruit & Fibre (fiber), NFS
 57221700 Fruit Rings, NFS
 57221800 Fruit Whirls
 57221810 Fruity Cheerios
 57223000 Fruity Pebbles
 57224000 Golden Grahams

57229500 Granola with Raisins, lowfat, Kellogg's
 57228000 Granola, homemade
 57229000 Granola, lowfat, Kellogg's
 57227000 Granola, NFS
 57230000 Grape-Nuts
 57231000 Grape-Nuts Flakes
 57231100 Grape-Nuts Trail Mix Crunch
 57231250 Great Grains Double Pecan Whole Grain Cereal, Post
 57231200 Great Grains, Raisin, Date, and Pecan Whole Grain Cereal, Post
 57237100 Honey Bunches of Oats Honey Roasted Cereal
 57237900 Honey Bunches of Oats Just Bunches
 57237300 Honey Bunches of Oats with Almonds, Post
 57237310 Honey Bunches of Oats with Pecan Bunches
 57237200 Honey Bunches of Oats with Vanilla Clusters, Post
 57239100 Honey Crunch Corn Flakes, Kellogg's
 57241000 Honey Nut Cheerios
 57240100 Honey Nut Chex
 57241200 Honey Nut Shredded Wheat, Post
 57243000 Honey Smacks, Kellogg's (formerly Smacks; Honey Smacks)
 57238000 Honeycomb, plain
 57239000 Honeycomb, strawberry
 57209000 Natural Bran Flakes, Post (formerly called 40% Bran Flakes, Post)
 57320500 100 % Natural Cereal, with oats, honey and raisins, Quaker
 57321500 100 % Natural Wholegrain Cereal with raisins, lowfat, Quaker
 57319000 100% Natural Cereal, plain, Quaker
 57347000 Corn Pops
 57348000 Frosted corn flakes, NFS
 57349000 Frosted Flakes, Kellogg's
 57305150 Frosted oat cereal with marshmallows
 57355000 Golden Crisp (Formerly called Super Golden Crisp)
 57303105 Honey Kix
 57301505 Kashi Autumn Wheat
 57301510 Kashi GOLEAN
 57301511 Kashi GOLEAN Crunch
 57301512 Kashi GOLEAN Crunch Honey Almond Flax
 57301520 Kashi Good Friends
 57301530 Kashi Heart to Heart Honey Toasted Oat
 57301535 Kashi Heart to Heart Oat Flakes and Blueberry Clusters
 57301540 Kashi Honey Sunshine
 57301500 Kashi, Puffed
 57302100 King Vitaman
 57303100 Kix
 57304100 Life (plain and cinnamon)

57305100 Lucky Charms
 57305160 Malt-O-Meal Blueberry Muffin Tops
 57305165 Malt-O-Meal Cinnamon Toasters
 57305175 Malt-O-Meal Cocoa Dyno-Bites
 57305170 Malt-O-Meal Coco-Roos
 57305174 Malt-O-Meal Colossal Crunch
 57305180 Malt-O-Meal Corn Bursts
 57305200 Malt-O-Meal Crispy Rice
 57305210 Malt-O-Meal Frosted Flakes
 57305215 Malt-O-Meal Frosted Mini Spooners
 57305300 Malt-O-Meal Fruity Dyno-Bites
 57306500 Malt-O-Meal Golden Puffs (formerly Sugar Puffs)
 57305500 Malt-O-Meal Honey and Nut Toasty O's
 57305400 Malt-O-Meal Honey Graham Squares
 57305600 Malt-O-Meal Marshmallow Mateys
 57306100 Malt-O-Meal Puffed Rice
 57306120 Malt-O-Meal Puffed Wheat
 57306130 Malt-O-Meal Raisin Bran
 57306700 Malt-O-Meal Toasted Oat Cereal
 57306800 Malt-O-meal Tootie Fruities
 57307010 Maple Pecan Crunch Cereal, Post
 57307500 Millet, puffed
 57308190 Muesli, dried fruit and nuts (formerly Muesli with raisins, dates, and almonds)
 57308150 Mueslix cereal, NFS
 57308400 MultiGrain Cheerios
 57309100 Nature Valley Granola, with fruit and nuts
 57316200 Nutty Nuggets, Ralston Purina
 57316300 Oat Bran Flakes, Health Valley
 57316380 Oat Cluster Cheerios Crunch
 57316450 Oatmeal Crisp with Almonds
 57316500 Oatmeal Crisp, Raisin (formerly Oatmeal Raisin Crisp)
 57346500 Oatmeal Honey Nut Heaven, Quaker (formerly Toasted Oatmeal, Honey Nut)
 57316710 Oh's, Honey Graham
 57321900 Organic Flax Plus, Nature's Path
 57321905 Organic Flax Plus, Pumpkin Granola, Nature's Path
 57325000 Product 19
 57326000 Puffins Cereal
 57327450 Quaker Oat Bran Cereal
 57327500 Quaker Oatmeal Squares (formerly Quaker Oat Squares)
 57328000 Quisp
 57330010 Raisin Bran Crunch, Kellogg's
 57330000 Raisin Bran, Kellogg's
 57329000 Raisin bran, NFS

57331000 Raisin Bran, Post
 57332050 Raisin Bran, Total
 57332100 Raisin Nut Bran
 57349020 Reduced Sugar Frosted Flakes Cereal, Kellogg's
 57335550 Reese's Peanut Butter Puffs cereal
 57336000 Rice Chex
 57337000 Rice Flakes, NFS
 57339500 Rice Krispies Treats Cereal, Kellogg's
 57339000 Rice Krispies, Kellogg's
 57340000 Rice, puffed
 57341000 Shredded Wheat'N Bran
 57341200 Smart Start Strong Heart Antioxidants Cereal, Kellogg's
 57344000 Special K
 57344001 Special K Blueberry
 57344005 Special K Chocolatey Delight
 57344025 Special K Cinnamon Pecan, Kellogg's
 57344015 Special K Fruit & Yogurt
 57344007 Special K Low Fat Granola
 57344010 Special K Red Berries
 57344020 Special K Vanilla Almond
 57323000 Sweet Crunch, Quaker (formerly called Popeye)
 57417000 Shredded Wheat, 100%
 57401100 Toasted oat cereal
 57406100 Total
 57407100 Trix
 57407110 Trix, reduced sugar
 57408100 Uncle Sam Cereal (formerly Uncle Sam's Hi Fiber Cereal)
 57409100 Waffle Crisp, Post
 57410000 Weetabix Whole Wheat Cereal
 57411000 Wheat Chex
 57412000 Wheat germ, plain
 57413000 Wheat germ, with sugar and honey
 57416000 Wheat, puffed, plain
 57416010 Wheat, puffed, presweetened with sugar
 57418000 Wheaties
 57419000 Yogurt Burst Cheerios

Chewing Gum

[Erythritol] = 75%

91800100 Chewing gum, NFS
 91801000 Chewing gum, regular
 91802000 Chewing gum, sugar free

BBQ Sauce

[Erythritol] = 15%

74406010 Barbecue sauce

Adjusted for a recipe factor of 10.24 to 42.46%

[Erythritol] = 1.54 to 6.37%

21304210 Beef, shortribs, barbecued, with sauce, lean and fat eaten
21304220 Beef, shortribs, barbecued, with sauce, lean only eaten
21304200 Beef, shortribs, barbecued, with sauce, NS as to fat eaten
22701040 Pork, spareribs, barbecued, with sauce, lean and fat eaten
22701050 Pork, spareribs, barbecued, with sauce, lean only eaten
22701030 Pork, spareribs, barbecued, with sauce, NS as to fat eaten
27116200 Beef with barbecue sauce (mixture)
27146000 Chicken or turkey with barbecue sauce, skin eaten
27146010 Chicken or turkey with barbecue sauce, skin not eaten
27120030 Ham or pork with barbecue sauce (mixture)
27160010 Meat with barbecue sauce, NS as to type of meat (mixture)
27510110 Beef barbecue sandwich or Sloppy Joe, on bun
27510130 Beef barbecue submarine sandwich, on bun
27540130 Chicken barbecue sandwich
27520510 Pork barbecue sandwich or Sloppy Joe, on bun
27520500 Pork sandwich, on white roll, with onions, dill pickles and barbecue sauce
28110620 Beef short ribs, boneless, with barbecue sauce, potatoes, vegetable (frozen meal)

Tomato Sauce

[Erythritol] = 15%

74401010 Tomato catsup
74401110 Tomato catsup, reduced sodium
74402010 Tomato chili sauce (catsup-type)

Adjusted for a recipe factor of 3.49 to 16.62%

[Erythritol] = 0.52 to 2.49%

27111500 Beef sloppy joe (no bun)
27150020 Crab, deviled
27151040 Crabs in tomato-based sauce, Puerto Rican style (mixture) (Salmorejo de jueyes)
27315250 Stuffed cabbage rolls with beef and rice
27418310 Corned beef with tomato sauce and onion, Puerto Rican style (mixture)
27510445 Bacon cheeseburger, 1/3 lb meat, with tomato and/or catsup, on bun
27510440 Bacon cheeseburger, 1/4 lb meat, with mayonnaise or salad dressing, and tomato and/or catsup, on bun

- 27510400 Bacon cheeseburger, 1/4 lb meat, with tomato and/or catsup, on bun
- 27510360 Bacon cheeseburger, with mayonnaise or salad dressing, tomato and/or catsup, on bun
- 27510310 Cheeseburger with tomato and/or catsup, on bun
- 27510355 Cheeseburger, 1/3 lb meat, with mayonnaise or salad dressing, tomato and/or catsup on bun
- 27510350 Cheeseburger, 1/4 lb meat, with mayonnaise or salad dressing, and tomato and/or catsup, on bun
- 27510320 Cheeseburger, 1/4 lb meat, with tomato and/or catsup, on bun
- 27510230 Cheeseburger, with mayonnaise or salad dressing, and tomato and/or catsup, on bun
- 27510385 Double bacon cheeseburger (2 patties), with tomato and/or catsup, on bun
- 27510430 Double bacon cheeseburger (2 patties, 1/4 lb meat each), with mayonnaise or salad dressing, and tomato and/or catsup, on bun
- 27510340 Double cheeseburger (2 patties), with mayonnaise or salad dressing and tomatoes and/or catsup, on bun
- 27510330 Double cheeseburger (2 patties), with tomato and/or catsup, on bun
- 27510375 Double cheeseburger (2 patties, 1/4 lb meat each), with tomato and/or catsup, on bun
- 27510540 Double hamburger (2 patties), with tomato and/or catsup, on bun
- 27510690 Double hamburger (2 patties, 1/4 lb meat each), with mayonnaise or salad dressing and tomatoes and/or catsup, on double-decker bun
- 27510680 Double hamburger (2 patties, 1/4 lb meat each), with tomato and/or catsup, on bun
- 27510610 Hamburger, 1 oz meat, with tomato and/or catsup, on miniature bun
- 27510560 Hamburger, 1/4 lb meat, with mayonnaise or salad dressing, and tomato and/or catsup, on bun
- 27510620 Hamburger, 1/4 lb meat, with tomato and/or catsup, on bun
- 27510520 Hamburger, with mayonnaise or salad dressing, and tomato and/or catsup, on bun
- 27510510 Hamburger, with tomato and/or catsup, on bun
- 27510380 Triple cheeseburger (3 patties, 1/4 lb meat each), with mayonnaise or salad dressing and tomatoes and/or catsup, on bun
- 27518000 Wrap sandwich filled with beef patty, bacon, cheese, tomato and/or catsup, and spread and/or sauce
- 27517010 Wrap sandwich filled with beef patty, cheese, tomato and/or catsup, and spread and/or sauce
- 41901020 Soyburger, meatless, with cheese on bun

Imitation Dairy Drinks (Soy, Almond, Cashew, Coconut, and Other Plant-Based Drinks)

[Erythritol] = 6%

- 11350000 Almond milk, sweetened
- 11350010 Almond milk, sweetened, chocolate
- 11350020 Almond milk, unsweetened
- 11350030 Almond milk, unsweetened, chocolate
- 11370000 Coconut milk
- 11340000 Imitation milk, non-soy, sweetened
- 11360000 Rice milk
- 11320000 Soy milk
- 11321000 Soy milk, chocolate
- 11320100 Soy milk, light
- 11321100 Soy milk, light, chocolate

11320200 Soy milk, nonfat
 11321200 Soy milk, nonfat, chocolate
 11513310 Chocolate milk, made from dry mix with non-dairy milk
 11513805 Chocolate milk, made from light syrup with non-dairy milk
 11513375 Chocolate milk, made from reduced sugar mix with non-dairy milk
 11513855 Chocolate milk, made from sugar free syrup with non-dairy milk
 11513750 Chocolate milk, made from syrup with non-dairy milk
 11514150 Hot chocolate / Cocoa, made with dry mix and non-dairy milk
 11514360 Hot chocolate / Cocoa, made with no sugar added dry mix and non-dairy milk
 11514310 Hot chocolate / Cocoa, made with no sugar added dry mix and water
 11512030 Hot chocolate / Cocoa, ready to drink, made with non-dairy milk
 11512120 Hot chocolate / Cocoa, ready to drink, made with non-dairy milk and whipped cream
 11513385 Nesquik, chocolate milk, made from dry mix with non-dairy milk
 11513395 Nesquik, chocolate milk, made from no sugar added dry mix with non-dairy milk
 11519215 Strawberry milk, non-dairy
 42401010 Coconut milk, used in cooking (liquid expressed from grated coconut meat, water added)

Adjusted for a recipe factor of 8.70 to 84.97%

[Erythritol] = 0.52 to 5.10%

13210820 Fresh corn custard, Puerto Rican style (Mazamorra, Mundo Nuevo)
 56201560 Cornmeal sticks, boiled
 58118110 Cornstarch coconut dessert, Puerto Rican style (Tembleque)
 58157210 Rice pudding made with coconut milk, Puerto Rican style
 58161200 Rice, cooked with coconut milk (Arroz con coco)
 73211110 Sweet potato and pumpkin casserole, Puerto Rican style
 91550100 Coconut cream cake, Puerto Rican style (Bien me sabe, "Tastes good to me")
 91560100 Haupia (coconut pudding)
 92101975 Coffee, Cafe Mocha, decaffeinated, with non-dairy milk
 92101960 Coffee, Cafe Mocha, with non-dairy milk
 92162002 Coffee, Cappuccino, decaffeinated, with non-dairy milk
 92161002 Coffee, Cappuccino, with non-dairy milk
 92102612 Coffee, Iced Caf   Mocha, decaffeinated, with non-dairy milk
 92102602 Coffee, Iced Caf   Mocha, with non-dairy milk
 92102512 Coffee, Iced Latte, decaffeinated, with non-dairy milk
 92102515 Coffee, Iced Latte, decaffeinated, with non-dairy milk, flavored
 92102502 Coffee, Iced Latte, with non-dairy milk
 92102505 Coffee, Iced Latte, with non-dairy milk, flavored
 92101913 Coffee, Latte, decaffeinated, with non-dairy milk
 92101919 Coffee, Latte, decaffeinated, with non-dairy milk, flavored
 92101903 Coffee, Latte, with non-dairy milk
 92101906 Coffee, Latte, with non-dairy milk, flavored
 92101933 Frozen coffee drink, decaffeinated, with non-dairy milk

- 92101938 Frozen coffee drink, decaffeinated, with non-dairy milk and whipped cream
- 92101923 Frozen coffee drink, with non-dairy milk
- 92101928 Frozen coffee drink, with non-dairy milk and whipped cream
- 92102080 Frozen mocha coffee drink, decaffeinated, with non-dairy milk
- 92102110 Frozen mocha coffee drink, decaffeinated, with non-dairy milk and whipped cream
- 92102020 Frozen mocha coffee drink, with non-dairy milk
- 92102050 Frozen mocha coffee drink, with non-dairy milk and whipped cream

Non-Dairy Toppings

[Erythritol] = 10%

- 12220200 Whipped topping, nondairy, frozen
- 12220270 Whipped topping, nondairy, frozen, fat free
- 12220250 Whipped topping, nondairy, frozen, lowfat
- 12220280 Whipped topping, nondairy, frozen, sugar free
- 12220000 Whipped topping, nondairy, NS as to canned, frozen, or made from powdered mix
- 12220100 Whipped topping, nondairy, pressurized can

Adjusted for a recipe factor of 7.22 to 24.30%

[Erythritol] = 0.72 to 2.43%

- 63403100 Fruit dessert with cream and/or pudding and nuts
- 63402970 Fruit salad (excluding citrus fruits) with nondairy whipped topping
- 63403030 Fruit salad (including citrus fruits) with nondairy whipped topping
- 91501040 Gelatin dessert with fruit and whipped cream
- 91501110 Gelatin dessert with fruit and whipped topping
- 91501030 Gelatin dessert with whipped cream

Low Calorie Salad Dressings

[Erythritol] = 15%

- 83201000 Blue or roquefort cheese dressing, light
- 83203000 Caesar dressing, light
- 83201400 Coleslaw dressing, light
- 83210100 Creamy dressing, light
- 83202020 French or Catalina dressing, light
- 83204500 Honey mustard dressing, light
- 83205450 Italian dressing, light
- 83208500 Korean dressing or marinade
- 83204050 Mayonnaise-type salad dressing, light
- 83206000 Russian dressing, light
- 83200100 Salad dressing, light, NFS
- 83206500 Sesame dressing, light

83207000 Thousand Island dressing, light
 83300100 Blue or roquefort cheese dressing, fat free
 83300200 Caesar dressing, fat free
 83300300 Creamy dressing, fat free
 83300400 French or Catalina dressing, fat free
 83300500 Honey mustard dressing, fat free
 83300600 Italian dressing, fat free
 83300800 Russian dressing, fat free
 83300900 Salad dressing, fat free, NFS
 83301000 Thousand Island dressing, fat free

Frozen Desserts (Regular Ice Cream, Soft Serve, Sorbet, Frozen Yogurt)

[Erythritol] = 10%

11460160 Yogurt, frozen, chocolate, lowfat milk
 11460200 Yogurt, frozen, chocolate, nonfat milk
 11460400 Yogurt, frozen, chocolate, nonfat milk, with low-calorie sweetener
 11460100 Yogurt, frozen, chocolate, NS as to type of milk
 11460430 Yogurt, frozen, chocolate, whole milk
 11461000 Yogurt, frozen, chocolate-coated
 11461250 Yogurt, frozen, cone, chocolate
 11461280 Yogurt, frozen, cone, chocolate, lowfat milk
 11461260 Yogurt, frozen, cone, flavors other than chocolate
 11461270 Yogurt, frozen, cone, flavors other than chocolate, lowfat milk
 11460170 Yogurt, frozen, flavors other than chocolate, lowfat milk
 11460300 Yogurt, frozen, flavors other than chocolate, nonfat milk
 11460410 Yogurt, frozen, flavors other than chocolate, nonfat milk, with low-calorie sweetener
 11460000 Yogurt, frozen, flavors other than chocolate, NS as to type of milk
 11460440 Yogurt, frozen, flavors other than chocolate, whole milk
 11460250 Yogurt, frozen, flavors other than chocolate, with sorbet or sorbet-coated
 11460150 Yogurt, frozen, NS as to flavor, lowfat milk
 11460190 Yogurt, frozen, NS as to flavor, nonfat milk
 11459990 Yogurt, frozen, NS as to flavor, NS as to type of milk
 11460420 Yogurt, frozen, NS as to flavor, whole milk
 11461200 Yogurt, frozen, sandwich
 13127010 Dippin' Dots, flash frozen ice cream snacks, chocolate
 13127000 Dippin' Dots, flash frozen ice cream snacks, flavors other than chocolate
 13160410 Fat free ice cream, chocolate
 13160400 Fat free ice cream, flavors other than chocolate
 13160150 Fat free ice cream, no sugar added, chocolate
 13160160 Fat free ice cream, no sugar added, flavors other than chocolate
 13160420 Fat free ice cream, NS as to flavor
 13121300 Ice cream sundae, chocolate or fudge topping, with whipped cream

13121100 Ice cream sundae, fruit topping, with whipped cream
 13121500 Ice cream sundae, fudge topping, with cake, with whipped cream
 13121400 Ice cream sundae, not fruit or chocolate topping, with whipped cream
 13121200 Ice cream sundae, prepackaged type, flavors other than chocolate
 13126000 Ice cream, fried
 13110000 Ice cream, NFS
 13110330 Ice cream, no sugar added, chocolate
 13110320 Ice cream, no sugar added, flavors other than chocolate
 13110310 Ice cream, no sugar added, NS as to flavor
 13110110 Ice cream, regular, chocolate
 13110100 Ice cream, regular, flavors other than chocolate
 13110130 Ice cream, rich, chocolate
 13110120 Ice cream, rich, flavors other than chocolate
 13110140 Ice cream, rich, NS as to flavor
 13110210 Ice cream, soft serve, chocolate
 13110200 Ice cream, soft serve, flavors other than chocolate
 13110220 Ice cream, soft serve, NS as to flavor
 13130310 Light ice cream, chocolate (formerly ice milk)
 13140700 Light ice cream, creamsicle or dreamsicle (formerly ice milk)
 13140710 Light ice cream, creamsicle or dreamsicle, no sugar added
 13130300 Light ice cream, flavors other than chocolate (formerly ice milk)
 13140900 Light ice cream, fudgesicle (formerly ice milk)
 13130340 Light ice cream, no sugar added, chocolate
 13130330 Light ice cream, no sugar added, flavors other than chocolate
 13130320 Light ice cream, no sugar added, NS as to flavor
 13130100 Light ice cream, NS as to flavor (formerly ice milk)
 13130700 Light ice cream, soft serve, blended with candy or cookies
 13130610 Light ice cream, soft serve, chocolate (formerly ice milk)
 13130600 Light ice cream, soft serve, flavors other than chocolate (formerly ice milk)
 13130590 Light ice cream, soft serve, NS as to flavor (formerly ice milk)
 13150000 Sherbet, all flavors
 63430110 Sorbet, fruit, citrus flavor
 63430100 Sorbet, fruit, noncitrus flavor

Adjusted for a recipe factor of 25 to 84%

[Erythritol] = 2.50 to 8.40%

13170000 Baked Alaska
 13120400 Ice cream bar or stick with fruit
 13120100 Ice cream bar or stick, chocolate covered
 13120140 Ice cream bar or stick, chocolate ice cream, chocolate covered
 13120110 Ice cream bar or stick, chocolate or caramel covered, with nuts
 13120050 Ice cream bar or stick, not chocolate covered or cake covered

- 13120120 Ice cream bar or stick, rich chocolate ice cream, thick chocolate covering
- 13120130 Ice cream bar or stick, rich ice cream, chocolate covered, with nuts
- 13120121 Ice cream bar or stick, rich ice cream, thick chocolate covering
- 13120300 Ice cream bar, cake covered
- 13120310 Ice cream bar, stick or nugget, with crunch coating
- 13120750 Ice cream cone with nuts, chocolate ice cream
- 13120700 Ice cream cone with nuts, flavors other than chocolate
- 13120760 Ice cream cone, chocolate covered or dipped, chocolate ice cream
- 13120720 Ice cream cone, chocolate covered or dipped, flavors other than chocolate
- 13120780 Ice cream cone, chocolate covered, with nuts, chocolate ice cream
- 13120710 Ice cream cone, chocolate covered, with nuts, flavors other than chocolate
- 13120770 Ice cream cone, no topping, chocolate ice cream
- 13120730 Ice cream cone, no topping, flavors other than chocolate
- 13120740 Ice cream cone, no topping, NS as to flavor
- 13120550 Ice cream cookie sandwich
- 13122100 Ice cream pie, no crust
- 13122500 Ice cream pie, with cookie crust, fudge topping, and whipped cream
- 13120500 Ice cream sandwich
- 13135010 Ice cream sandwich, made with light chocolate ice cream
- 13135000 Ice cream sandwich, made with light ice cream, flavors other than chocolate
- 13136000 Ice cream sandwich, made with light, no sugar added ice cream
- 13120810 Ice cream soda, chocolate
- 13120800 Ice cream soda, flavors other than chocolate
- 13120790 Ice cream sundae cone
- 13121000 Ice cream sundae, NS as to topping, with whipped cream
- 13140110 Light ice cream, bar or stick, chocolate covered, with nuts (formerly ice milk)
- 13140100 Light ice cream, bar or stick, chocolate-coated (formerly ice milk)
- 13161630 Light ice cream, bar or stick, with low-calorie sweetener, chocolate-coated (formerly ice milk)
- 13140550 Light ice cream, cone, chocolate (formerly ice milk)
- 13140500 Light ice cream, cone, flavors other than chocolate (formerly ice milk)
- 13140450 Light ice cream, cone, NFS (formerly ice milk)
- 13140580 Light ice cream, no sugar added, cone, chocolate
- 13140575 Light ice cream, no sugar added, cone, flavors other than chocolate
- 13140570 Light ice cream, no sugar added, cone, NS as to flavor
- 13130630 Light ice cream, soft serve cone, chocolate (formerly ice milk)
- 13130620 Light ice cream, soft serve cone, flavors other than chocolate (formerly ice milk)
- 13130640 Light ice cream, soft serve cone, NS as to flavor (formerly ice milk)
- 13140660 Light ice cream, sundae, soft serve, chocolate or fudge topping (without whipped cream) (formerly ice milk)
- 13140600 Light ice cream, sundae, soft serve, chocolate or fudge topping, with whipped cream (formerly ice milk)
- 13140670 Light ice cream, sundae, soft serve, fruit topping (without whipped cream) (formerly ice milk)
- 13140630 Light ice cream, sundae, soft serve, fruit topping, with whipped cream (formerly ice milk)

- 13140680 Light ice cream, sundae, soft serve, not fruit or chocolate topping (without whipped cream) (formerly ice milk)
- 13140650 Light ice cream, sundae, soft serve, not fruit or chocolate topping, with whipped cream (formerly ice milk)
- 13142000 Milk dessert bar or stick, frozen, with coconut
- 13161000 Milk dessert bar, frozen, made from lowfat milk
- 13161600 Milk dessert bar, frozen, made from lowfat milk and low calorie sweetener
- 13161500 Milk dessert sandwich bar, frozen, made from lowfat milk
- 13161520 Milk dessert sandwich bar, frozen, with low-calorie sweetener, made from lowfat milk

Fruit-Based Slushies

[Erythritol] = 3.5%

- 91611000 Ice pop
- 91611050 Ice pop filled with ice cream, all flavor varieties
- 91611100 Ice pop, sweetened with low calorie sweetener
- 91601000 Ice, fruit
- 91621000 Snow cone

Fillings (Fruit, Custard, Cream, Pudding)

[Erythritol] = 15%

- 61113500 Lemon pie filling
- 63113030 Cherry pie filling
- 63113050 Cherry pie filling, low calorie
- 63203700 Blueberry pie filling

Adjusted for a recipe factor of 50%

[Erythritol] = 7.50%

- 13210810 Puerto Rican pumpkin pudding (Flan de calabaza)

Puddings (Instant, Phosphate Set)

[Erythritol] = 10%

- 13210250 Pudding, chocolate, low calorie, containing artificial sweetener, NS as to from dry mix or ready-to-eat
- 13210220 Pudding, chocolate, NS as to from dry mix or ready-to-eat
- 13220220 Pudding, chocolate, prepared from dry mix, low calorie, containing artificial sweetener, milk added
- 13220120 Pudding, chocolate, prepared from dry mix, milk added
- 13210290 Pudding, flavors other than chocolate, low calorie, containing artificial sweetener, NS as to from dry mix or ready-to-eat
- 13210280 Pudding, flavors other than chocolate, NS as to from dry mix or ready-to-eat
- 13220210 Pudding, flavors other than chocolate, prepared from dry mix, low calorie, containing artificial sweetener, milk added

- 13220110 Pudding, flavors other than chocolate, prepared from dry mix, milk added
- 13200110 Pudding, NFS
- 13230130 Pudding, ready-to-eat, chocolate
- 13230200 Pudding, ready-to-eat, chocolate and non-chocolate flavors combined
- 13220235 Pudding, ready-to-eat, chocolate, fat free
- 13220230 Pudding, ready-to-eat, chocolate, reduced fat
- 13230110 Pudding, ready-to-eat, flavors other than chocolate
- 13220245 Pudding, ready-to-eat, flavors other than chocolate, fat free
- 13220240 Pudding, ready-to-eat, flavors other than chocolate, reduced fat
- 13230140 Pudding, ready-to-eat, low calorie, containing artificial sweetener, chocolate
- 13230120 Pudding, ready-to-eat, low calorie, containing artificial sweetener, flavors other than chocolate
- 13230500 Pudding, ready-to-eat, tapioca
- 13230510 Pudding, ready-to-eat, tapioca, fat free
- 13210520 Pudding, tapioca, made from dry mix, made with milk
- 13241000 Pudding, with fruit and vanilla wafers

Adjusted for a recipe factor of 53.38 to 55.58%
 [Erythritol] = 5.34 to 5.56%

- 63403000 Fruit salad (excluding citrus fruits) with pudding
- 63402990 Fruit salad (including citrus fruits) with pudding

Hard Candy (Mints, Pressed, Candies, Cough Drops)

[Erythritol] = 99%

- 91745040 Butterscotch hard candy
- 91770000 Dietetic or low calorie candy, NFS
- 91770020 Dietetic or low calorie hard candy
- 91770050 Dietetic or low calorie mints
- 91745020 Hard candy
- 91718000 Honey-combed hard candy with peanut butter
- 91718050 Honey-combed hard candy with peanut butter, chocolate covered

Jams and Jellies

[Erythritol] = 15%

- 91402000 Jam, preserves, all flavors
- 91406000 Jams, preserves, marmalades, dietetic, all flavors, sweetened with artificial sweetener
- 91406600 Jams, preserves, marmalades, low sugar (all flavors)
- 91406500 Jams, preserves, marmalades, sweetened with fruit juice concentrates, all flavors
- 91401000 Jelly, all flavors
- 91405000 Jelly, dietetic, all flavors, sweetened with artificial sweetener
- 91405500 Jelly, reduced sugar, all flavors

Adjusted for a recipe factor of 0.6 to 57.0%
[Erythritol] = 0.09 to 8.55%

- 28143200 Chicken in soy-based sauce, rice and vegetables (frozen meal)
- 42203000 Peanut butter and jelly
- 42302010 Peanut butter and jelly sandwich

Dairy drinks (Chocolate and Flavored Milks)

[Erythritol] = 3.5%

- 11513300 Chocolate milk, made from dry mix with fat free milk (skim)
- 11513200 Chocolate milk, made from dry mix with low fat milk (1%)
- 11513150 Chocolate milk, made from dry mix with reduced fat milk (2%)
- 11513100 Chocolate milk, made from dry mix with whole milk
- 11513000 Chocolate milk, made from dry mix, NS as to type of milk
- 11513804 Chocolate milk, made from light syrup with fat free milk (skim)
- 11513803 Chocolate milk, made from light syrup with low fat milk (1%)
- 11513802 Chocolate milk, made from light syrup with reduced fat milk (2%)
- 11513801 Chocolate milk, made from light syrup with whole milk
- 11513800 Chocolate milk, made from light syrup, NS as to type of milk
- 11513370 Chocolate milk, made from reduced sugar mix with fat free milk (skim)
- 11513365 Chocolate milk, made from reduced sugar mix with low fat milk (1%)
- 11513360 Chocolate milk, made from reduced sugar mix with reduced fat milk (2%)
- 11513355 Chocolate milk, made from reduced sugar mix with whole milk
- 11513350 Chocolate milk, made from reduced sugar mix, NS as to type of milk
- 11513854 Chocolate milk, made from sugar free syrup with fat free milk (skim)
- 11513853 Chocolate milk, made from sugar free syrup with low fat milk (1%)
- 11513852 Chocolate milk, made from sugar free syrup with reduced fat milk (2%)
- 11513851 Chocolate milk, made from sugar free syrup with whole milk
- 11513850 Chocolate milk, made from sugar free syrup, NS as to type of milk
- 11513700 Chocolate milk, made from syrup with fat free milk (skim)
- 11513600 Chocolate milk, made from syrup with low fat milk (1%)
- 11513550 Chocolate milk, made from syrup with reduced fat milk (2%)
- 11513500 Chocolate milk, made from syrup with whole milk
- 11513400 Chocolate milk, made from syrup, NS as to type of milk
- 11511000 Chocolate milk, NFS
- 11511300 Chocolate milk, ready to drink, fat free (skim)
- 11511400 Chocolate milk, ready to drink, low fat (1%)
- 11511200 Chocolate milk, ready to drink, reduced fat (2%)
- 11511550 Chocolate milk, ready to drink, reduced sugar, NS as to milk
- 11511100 Chocolate milk, ready to drink, whole
- 11531500 Eggnog, lowfat / light

11531000 Egnog, regular
 11553130 Fruit smoothie juice drink, with dairy
 11553110 Fruit smoothie, with whole fruit and dairy
 11553120 Fruit smoothie, with whole fruit and dairy, added protein
 11514140 Hot chocolate / Cocoa, made with dry mix and fat free milk (skim)
 11514130 Hot chocolate / Cocoa, made with dry mix and low fat milk (1%)
 11514120 Hot chocolate / Cocoa, made with dry mix and reduced fat milk (2%)
 11514100 Hot chocolate / Cocoa, made with dry mix and water
 11514110 Hot chocolate / Cocoa, made with dry mix and whole milk
 11514350 Hot chocolate / Cocoa, made with no sugar added dry mix and fat free milk (skim)
 11514340 Hot chocolate / Cocoa, made with no sugar added dry mix and low fat milk (1%)
 11514330 Hot chocolate / Cocoa, made with no sugar added dry mix and reduced fat milk (2%)
 11514320 Hot chocolate / Cocoa, made with no sugar added dry mix and whole milk
 11512010 Hot chocolate / Cocoa, ready to drink
 11512020 Hot chocolate / Cocoa, ready to drink, made with nonfat milk
 11512110 Hot chocolate / Cocoa, ready to drink, made with nonfat milk and whipped cream
 11512100 Hot chocolate / Cocoa, ready to drink, with whipped cream
 11551050 Licuado / Batido (milk fruit drink)
 11541400 Milk shake with malt
 11543000 Milk shake, bottled, chocolate
 11543010 Milk shake, bottled, flavors other than chocolate
 11542100 Milk shake, fast food, chocolate
 11542200 Milk shake, fast food, flavors other than chocolate
 11541110 Milk shake, home recipe, chocolate
 11541130 Milk shake, home recipe, chocolate, light
 11541120 Milk shake, home recipe, flavors other than chocolate
 11541135 Milk shake, home recipe, flavors other than chocolate, light
 11526000 Milk, malted, chocolate, made with milk
 11525000 Milk, malted, natural flavor, made with milk
 11513384 Nesquik, chocolate milk, made from dry mix with fat free milk (skim)
 11513383 Nesquik, chocolate milk, made from dry mix with low fat milk (1%)
 11513382 Nesquik, chocolate milk, made from dry mix with reduced fat milk (2%)
 11513381 Nesquik, chocolate milk, made from dry mix with whole milk
 11513380 Nesquik, chocolate milk, made from dry mix, NS as to type of milk
 11513394 Nesquik, chocolate milk, made from no sugar added dry mix with fat free milk (skim)
 11513393 Nesquik, chocolate milk, made from no sugar added dry mix with low fat milk (1%)
 11513392 Nesquik, chocolate milk, made from no sugar added dry mix with reduced fat milk (2%)
 11513391 Nesquik, chocolate milk, made from no sugar added dry mix with whole milk
 11513390 Nesquik, chocolate milk, made from no sugar added dry mix, NS as to type of milk
 11511610 Nesquik, chocolate milk, ready to drink, fat free (skim)
 11511600 Nesquik, chocolate milk, ready to drink, low fat (1%)
 11511700 Nesquik, chocolate milk, ready to drink, low fat (1%), no sugar added
 11519205 Strawberry milk, fat free (skim)

11519200 Strawberry milk, low fat (1%)
 11519040 Strawberry milk, NFS
 11519105 Strawberry milk, reduced fat (2%)
 11519050 Strawberry milk, whole
 11560000 Yoo-hoo, chocolate milk drink
 11830160 Chocolate beverage powder, dry mix, not reconstituted
 11830165 Chocolate beverage powder, reduced sugar, dry mix, not reconstituted
 11830150 Cocoa powder, not reconstituted (no dry milk)
 11830115 Hot chocolate / Cocoa, dry mix, no sugar added, not reconstituted
 11830100 Hot chocolate / Cocoa, dry mix, not reconstituted
 11830260 Milk, malted, dry mix, not reconstituted
 11830400 Strawberry beverage powder, dry mix, not reconstituted

Yogurt

[Erythritol] = 5%

11446000 Fruit and low fat yogurt parfait
 11427000 Yogurt, chocolate, nonfat milk
 11425000 Yogurt, chocolate, NS as to type of milk
 11426000 Yogurt, chocolate, whole milk
 11432000 Yogurt, fruit, low fat milk
 11432500 Yogurt, fruit, low fat milk, light
 11433000 Yogurt, fruit, nonfat milk
 11433500 Yogurt, fruit, nonfat milk, light
 11430000 Yogurt, fruit, NS as to type of milk
 11431000 Yogurt, fruit, whole milk
 11428000 Yogurt, Greek, chocolate, nonfat
 11434010 Yogurt, Greek, fruit, low fat
 11434020 Yogurt, Greek, fruit, nonfat
 11434000 Yogurt, Greek, fruit, whole milk
 11411410 Yogurt, Greek, plain, low fat
 11411420 Yogurt, Greek, plain, nonfat milk
 11411400 Yogurt, Greek, plain, whole milk
 11424510 Yogurt, Greek, vanilla, low fat
 11424520 Yogurt, Greek, vanilla, nonfat
 11424500 Yogurt, Greek, vanilla, whole milk
 11410000 Yogurt, NS as to type of milk or flavor
 11411200 Yogurt, plain, low fat milk
 11411300 Yogurt, plain, nonfat milk
 11411010 Yogurt, plain, NS as to type of milk
 11411100 Yogurt, plain, whole milk
 11422000 Yogurt, vanilla, low fat milk
 11422100 Yogurt, vanilla, low fat milk, light

11423000 Yogurt, vanilla, nonfat milk
11424000 Yogurt, vanilla, nonfat milk, light
11420000 Yogurt, vanilla, NS as to type of milk
11421000 Yogurt, vanilla, whole milk
41420380 Soy yogurt
67404300 Blueberry yogurt dessert, baby food, strained

Adjusted for a recipe factor of 2.66 to 60.00%

[Erythritol] = 0.13 to 3.00%

27116100 Beef curry
27146150 Chicken curry
27150320 Fish curry
27130100 Lamb or mutton curry
27120160 Pork curry
27150100 Shrimp curry
27243100 Biryani with chicken
27213010 Biryani with meat
27516010 Gyro sandwich (pita bread, beef, lamb, onion, condiments), with tomato and spread
32101530 Egg curry
58124500 Pastry, filled with potatoes and peas, fried
75440600 Vegetable curry
77316600 Eggplant and meat casserole
83115000 Yogurt dressing
91701030 Almonds, yogurt-covered
91731150 Peanuts, yogurt covered
91739600 Raisins, yogurt covered
91708160 Yogurt covered fruit snacks candy rolls, with high vitamin C
91708150 Yogurt covered fruit snacks candy, with added vitamin C

Fruit-Based Smoothies

[Erythritol] = 3.5%

11553100 Fruit smoothie, NFS
64134030 Fruit smoothie juice drink (no dairy)
64134200 Fruit smoothie, bottled
64134100 Fruit smoothie, light
64134015 Fruit smoothie, with whole fruit (no dairy)
64134020 Fruit smoothie, with whole fruit (no dairy), added protein
78101100 Fruit and vegetable smoothie
78101110 Fruit and vegetable smoothie, added protein
78101120 Fruit and vegetable smoothie, bottled
92513000 Fruit flavored smoothie drink, frozen (no dairy)
92513010 Fruit flavored smoothie drink, frozen, light (no dairy)

Salty Snacks

[Erythritol] = 10%

54440010	Bagel chip
54420200	Multigrain mixture, bread sticks, sesame nuggets, pretzels, rye chips
54420010	Multigrain mixture, pretzels, cereal and/or crackers, nuts
54420100	Oriental party mix, with peanuts, sesame sticks, chili rice crackers and fried green peas
54402700	Pita chips
54403010	Popcorn, air-popped (no butter or no oil added)
54403040	Popcorn, air-popped, buttered
54403050	Popcorn, flavored
54403020	Popcorn, popped in oil, buttered
54403070	Popcorn, popped in oil, lowfat
54403060	Popcorn, popped in oil, lowfat, reduced sodium
54403000	Popcorn, popped in oil, unbuttered
54403090	Popcorn, popped in oil, unsalted
54403110	Popcorn, sugar syrup or caramel-coated
54403150	Popcorn, sugar syrup or caramel-coated, fat free
54403120	Popcorn, sugar syrup or caramel-coated, with nuts
54408100	Pretzel, baby food
54408080	Pretzel, gluten free
54408200	Pretzel, hard, chocolate-coated
54408070	Pretzel, hard, multigrain
54408030	Pretzel, hard, unsalted
54408050	Pretzel, oatbran, hard
54408250	Pretzel, yogurt-covered
54408300	Pretzels, cheese-filled
54408010	Pretzels, hard
54408000	Pretzels, NFS
54408020	Pretzels, soft
54408040	Pretzels, soft, unsalted
54402200	Salty snack mixture, mostly corn or cornmeal based, with pretzels, without nuts
54401210	Salty snacks, corn based puffs and twists, cheese puffs and twists, lowfat
54401020	Salty snacks, corn or cornmeal base, corn chips, corn-cheese chips
54401090	Salty snacks, corn or cornmeal base, corn chips, corn-cheese chips, unsalted
54401050	Salty snacks, corn or cornmeal base, corn puffs and twists; corn-cheese puffs and twists
54401010	Salty snacks, corn or cornmeal base, nuts or nuggets, toasted
54401080	Salty snacks, corn or cornmeal base, tortilla chips
54401120	Salty snacks, corn or cornmeal base, tortilla chips, fat free, made with Olean
54401100	Salty snacks, corn or cornmeal base, tortilla chips, light (baked with less oil)
54401150	Salty snacks, corn or cornmeal base, tortilla chips, lowfat, baked without fat

- 54401170 Salty snacks, corn or cornmeal base, tortilla chips, lowfat, baked without fat, unsalted
- 54402080 Salty snacks, corn or cornmeal base, tortilla chips, unsalted
- 54401200 Salty snacks, corn or cornmeal base, with oat bran, tortilla chips
- 54402610 Salty snacks, multigrain and potato chips (made with rice flour, dried potatoes, corn flour, and wheat starch)
- 54402600 Salty snacks, multigrain, whole grain, chips (made with whole corn, whole wheat, rice flour, and whole oat flour)
- 54402500 Salty snacks, wheat- and corn-based chips
- 54402300 Salty snacks, wheat-based, high fiber
- 54406200 Shrimp chips (tapioca base)
- 54406010 Snacks, onion-flavored rings

Fruit Novelty Snacks (e.g., Fruit Peel, Fruit Candy Bar, Fruit Leathers, Fruit Creams, Fruit Snack Candy, Gummy Fruits)

[Erythritol] = 45%

- 91708030 Fruit leather and fruit snacks candy
- 91708000 Fruit peel, candied
- 91708100 Fruit snacks candy, with high vitamin C
- 91708040 Fun Fruits Creme Supremes
- 91708020 Soft fruit confections

Non-Chocolate Candies

[Erythritol] = 45%

- 91702010 Butterscotch morsels
- 91700010 Candy, NFS
- 91703050 Caramel with nuts and cereal, chocolate covered
- 91703060 Caramel with nuts, chocolate covered
- 91703080 Caramel, all flavors, sugar free
- 91703010 Caramel, chocolate-flavored roll
- 91703020 Caramel, flavor other than chocolate
- 91703030 Caramel, with nuts
- 91706100 Coconut candy, no chocolate covering
- 91706400 Coconut candy, Puerto Rican style
- 91708010 Date candy
- 91770010 Dietetic or low calorie gumdrops
- 91713100 Fudge, brown sugar (penuche)
- 91713090 Fudge, divinity
- 91713050 Fudge, peanut butter
- 91713060 Fudge, peanut butter, with nuts
- 91713070 Fudge, vanilla
- 91713080 Fudge, vanilla, with nuts
- 91745010 Gumdrops

91716010 Halvah, plain
 91718300 Ladoo, round ball, Asian-Indian dessert
 91721000 Licorice
 91723000 Marshmallow
 91723020 Marshmallow, candy-coated
 91723050 Marshmallow, coconut-coated
 91726000 Nougat, plain
 91728000 Nut roll, fudge or nougat, caramel and nuts
 91703500 Nuts, carob-coated
 91733000 Peanut brittle
 91734500 Peanut butter morsels
 91731100 Peanuts, sugar-coated
 91736000 Pineapple candy, Puerto Rican style
 91735000 Pralines
 91742010 Sesame Crunch (Sahadi)
 91746120 Sixlets
 91745100 Skittles
 91728500 Sugared pecans (sugar and egg white coating)
 91750000 Taffy
 91708070 Tamarind candy
 91760000 Toffee, plain
 91760700 Wax candy, liquid filled

Adjusted for a recipe factor of 70 to 77%
 [Erythritol] = 31.50 to 34.65%

91703040 Caramel candy, chocolate covered
 91706000 Coconut candy, chocolate covered
 91709000 Gumdrops, chocolate covered
 91716110 Halvah, chocolate covered

Soft Chocolate Candies

[Erythritol] = 45%

91701020 Almonds, sugar-coated
 91705300 Chocolate, sweet or dark
 91705400 Chocolate, white
 91707000 Fondant
 91705010 Milk chocolate candy, plain
 91732000 Peanut bar
 91732100 Planters Peanut Bar
 91746010 Sugar-coated chocolate discs

Adjusted for a recipe factor of 10 to 70%
[Erythritol] = 4.50 to 31.50%

91715300 100 GRAND Bar
91726420 3 MUSKETEERS Bar
91726425 3 Musketeers Truffle Crisp Bar
91701010 Almonds, chocolate covered
91715200 Baby Ruth
91718100 Butterfinger
91718110 Butterfinger Crisp
91705090 Chocolate candy with fondant and caramel
91705040 Chocolate, milk, with nuts, not almond or peanuts
91705070 Chocolate, milk, with peanuts
91705200 Chocolate, semi-sweet morsel
91705310 Chocolate, sweet or dark, with almonds
91705410 Chocolate, white, with almonds
91705420 Chocolate, white, with cereal
91770030 Dietetic or low calorie candy, chocolate covered
91746150 Easter egg, candy coated chocolate
91703600 Espresso coffee beans, chocolate-covered
91707010 Fondant, chocolate covered
91715000 Fudge, caramel and nut, chocolate-coated candy
91713030 Fudge, chocolate
91713010 Fudge, chocolate, chocolate-coated
91713020 Fudge, chocolate, chocolate-coated, with nuts
91713040 Fudge, chocolate, with nuts
91705030 Kit Kat
91705430 Kit Kat White
91700500 M&M's Almond Chocolate Candies
91746100 M&M's Milk Chocolate Candies (formerly M&M's Plain Chocolate Candies)
91731060 M&M's Peanut Butter Chocolate Candies
91731010 M&M's Peanut Chocolate Candies
91746200 M&M's Pretzel Chocolate Candies
91726150 MARS Almond Bar (formerly MARS bar)
91723010 Marshmallow, chocolate covered
91705500 Mexican chocolate (tablet)
91705060 Milk chocolate candy, with almonds
91705020 Milk chocolate candy, with cereal
91705050 Milk chocolate candy, with fruit and nuts
91726130 MILKY WAY Bar
91726140 MILKY WAY MIDNIGHT Bar (formerly MILKY WAY DARK Bar)
91726410 Nougat, chocolate covered
91726110 Nougat, with caramel, chocolate covered

91727010 Nuts, chocolate covered, not almonds or peanuts
 91733200 Peanut Bar, chocolate covered candy
 91734000 Peanut butter, chocolate covered
 91731000 Peanuts, chocolate covered
 91739010 Raisins, chocolate covered
 91734450 Reese's Crispy Crunchy Bar
 91734400 Reese's Fast Break
 91734100 Reese's Peanut Butter Cup
 91734200 Reese's Pieces
 91734300 Reese's Sticks
 91703070 Rolo
 91715100 SNICKERS Bar
 91703150 Toblerone, milk chocolate with honey and almond nougat
 91760100 Toffee, chocolate covered
 91760200 Toffee, chocolate-coated, with nuts
 91760500 Truffles
 91703200 TWIX Caramel Cookie Bars (formerly TWIX Cookie Bars)
 91703250 TWIX Chocolate Fudge Cookie Bars
 91703300 TWIX Peanut Butter Cookie Bars
 91703400 Whatchamacallit

Sugar Substitutes

[Erythritol] = 100%

91109000 Blue Agave liquid sweetener, sugar substitute
 91105010 Fructose sweetener, sugar substitute, dry powder
 91107000 Sucralose-based sweetener, sugar substitute
 91108010 Sugar substitute, herbal extract sweetener, liquid
 91108000 Sugar substitute, herbal extract sweetener, powder
 91106000 Sugar substitute, sugar-aspartame blend, dry powder
 91200030 Brown sugar substitute, saccharin-based, dry powder
 91201010 Sugar substitute, aspartame-based, dry powder
 91200000 Sugar substitute, low-calorie, powdered, NFS
 91200020 Sugar substitute, saccharin-based, dry powder
 91200040 Sugar substitute, saccharin-based, dry powder and tablets
 91200110 Sugar substitute, saccharin-based, liquid

Canned Fruit (Syrup)

Adjusted for a recipe factor of 36%

[Erythritol] = 5.40%

61104230 Grapefruit and orange sections, cooked, canned, or frozen, in light syrup
 61104200 Grapefruit and orange sections, cooked, canned, or frozen, NS as to added sweetener

61104220 Grapefruit and orange sections, cooked, canned, or frozen, unsweetened, water pack

61101230 Grapefruit, canned or frozen, in light syrup

61101200 Grapefruit, canned or frozen, NS as to sweetened or unsweetened; sweetened, NS as to type of sweetener

61101220 Grapefruit, canned or frozen, unsweetened, water pack

61110230 Kumquat, cooked or canned, in syrup

61122350 Orange, mandarin, canned or frozen, drained

61122330 Orange, mandarin, canned or frozen, in light syrup

61122320 Orange, mandarin, canned or frozen, juice pack

61122300 Orange, mandarin, canned or frozen, NS as to sweetened or unsweetened; sweetened, NS as to type of sweetener

61119020 Orange, sections, canned, juice pack

63103150 Apricot, cooked or canned, drained solids

63103130 Apricot, cooked or canned, in heavy syrup

63103140 Apricot, cooked or canned, in light syrup

63103170 Apricot, cooked or canned, juice pack

63103110 Apricot, cooked or canned, NS as to sweetened or unsweetened; sweetened, NS as to type of sweetener

63103120 Apricot, cooked or canned, unsweetened, water pack

63115150 Cherries, sweet, cooked or canned, drained solids

63115130 Cherries, sweet, cooked or canned, in heavy syrup

63115140 Cherries, sweet, cooked or canned, in light syrup

63115170 Cherries, sweet, cooked or canned, juice pack

63115110 Cherries, sweet, cooked or canned, NS as to sweetened or unsweetened; sweetened, NS as to type of sweetener

63115120 Cherries, sweet, cooked, unsweetened, water pack

63119130 Fig, cooked or canned, in heavy syrup

63119110 Fig, cooked or canned, NS as to sweetened or unsweetened; sweetened, NS as to type of sweetener

63119120 Fig, cooked or canned, unsweetened, water pack

63119140 Figs, cooked or canned, in light syrup

63123130 Grapes, seedless, cooked or canned, in heavy syrup

63123110 Grapes, seedless, cooked or canned, NS as to sweetened or unsweetened; sweetened, NS as to type of sweetener

63123120 Grapes, seedless, cooked or canned, unsweetened, water pack

63125100 Guava shell (assume canned in heavy syrup)

63126600 Lychee, cooked or canned, in sugar or syrup

63135150 Peach, cooked or canned, drained solids

63135130 Peach, cooked or canned, in heavy syrup

63135140 Peach, cooked or canned, in light or medium syrup

63135170 Peach, cooked or canned, juice pack

63135110 Peach, cooked or canned, NS as to sweetened or unsweetened; sweetened, NS as to type of sweetener

63135120 Peach, cooked or canned, unsweetened, water pack

63137150 Pear, cooked or canned, drained solids
 63137130 Pear, cooked or canned, in heavy syrup
 63137140 Pear, cooked or canned, in light syrup
 63137170 Pear, cooked or canned, juice pack
 63137110 Pear, cooked or canned, NS as to sweetened or unsweetened; sweetened, NS as to type of sweetener
 63137120 Pear, cooked or canned, unsweetened, water pack
 63141150 Pineapple, cooked or canned, drained solids
 63141130 Pineapple, cooked or canned, in heavy syrup
 63141140 Pineapple, cooked or canned, in light syrup
 63141170 Pineapple, cooked or canned, juice pack
 63141110 Pineapple, cooked or canned, NS as to sweetened or unsweetened; sweetened, NS as to type of sweetener
 63143150 Plum, cooked or canned, drained solids
 63143130 Plum, cooked or canned, in heavy syrup
 63143140 Plum, cooked or canned, in light syrup
 63143170 Plum, cooked or canned, juice pack
 63143110 Plum, cooked or canned, NS as to sweetened or unsweetened; sweetened, NS as to type of sweetener
 63143120 Plum, cooked or canned, unsweetened, water pack
 63147150 Rhubarb, cooked or canned, drained solids
 63147130 Rhubarb, cooked or canned, in heavy syrup
 63147140 Rhubarb, cooked or canned, in light syrup
 63147110 Rhubarb, cooked or canned, NS as to sweetened or unsweetened; sweetened, NS as to type of sweetener
 63147120 Rhubarb, cooked or canned, unsweetened
 63201130 Blackberries, cooked or canned, in heavy syrup
 63201110 Blackberries, cooked or canned, NS as to sweetened or unsweetened; sweetened, NS as to type of sweetener
 63203130 Blueberries, cooked or canned, in heavy syrup
 63203125 Blueberries, cooked or canned, in light syrup
 63203110 Blueberries, cooked or canned, NS as to sweetened or unsweetened; sweetened, NS as to type of sweetener
 63203120 Blueberries, cooked or canned, unsweetened, water pack
 63207110 Cranberries, cooked or canned
 63207000 Cranberries, NS as to raw, cooked, or canned
 63219130 Raspberries, cooked or canned, in heavy syrup
 63219110 Raspberries, cooked or canned, NS as to sweetened or unsweetened; sweetened, NS as to type of sweetener
 63219120 Raspberries, cooked or canned, unsweetened, water pack
 63223130 Strawberries, cooked or canned, in syrup
 63223110 Strawberries, cooked or canned, NS as to sweetened or unsweetened; sweetened, NS as to type of sweetener
 63223120 Strawberries, cooked or canned, unsweetened, water pack

- 63311150 Fruit cocktail, cooked or canned, drained solids
- 63311130 Fruit cocktail, cooked or canned, in heavy syrup
- 63311140 Fruit cocktail, cooked or canned, in light syrup
- 63311170 Fruit cocktail, cooked or canned, juice pack
- 63311110 Fruit cocktail, cooked or canned, NS as to sweetened or unsweetened; sweetened, NS as to type of sweetener
- 63311120 Fruit cocktail, cooked or canned, unsweetened, water pack
- 63311145 Tropical fruit cocktail, cooked or canned, in light syrup

Regular or Low-Calorie Syrups or Toppings

[Erythritol] = 15%

- 91301081 Chocolate syrup, thin type, light
- 91301082 Chocolate syrup, thin type, sugar free
- 91300100 Pancake syrup, NFS
- 91351010 Syrup, dietetic
- 91300010 Syrup, NFS
- 91301510 Syrup, pancake, reduced calorie
- 91351020 Topping, dietetic
- 91304080 Topping, fruit, unsweetened

Report of the Expert Panel

OPINION OF AN EXPERT PANEL ON THE SAFETY AND GENERALLY RECOGNIZED AS SAFE (GRAS) STATUS OF ERYTHRITOL FOR USE IN FOOD

Introduction

An independent panel of experts (Expert Panel), qualified by scientific training and experience to evaluate the safety of food and food ingredients, was requested by Cargill, Incorporated (Cargill) to determine the safety and Generally Recognized as Safe (GRAS) status of the use of erythritol for use in food for human consumption. Erythritol is intended for use as a flavor enhancer, formulation aid, humectant, nutritive sweetener, stabilizer and thickener, sequestrant, or texturizer in foods. The erythritol ingredient is manufactured in accordance with current Good Manufacturing Practice (cGMP) and meets the proposed specifications.

A detailed review based on the existing scientific literature (through October 2017) on the safety of erythritol was conducted by ToxStrategies, Inc. (ToxStrategies) and is summarized in the attached dossier. The Expert Panel members reviewed the dossier prepared by ToxStrategies and other pertinent information and convened on February 27 and May 7, 2018 via teleconference. Based on an independent, critical evaluation of all of the available information and discussions during the February 27 and May 7, 2018 teleconferences, the Expert Panel unanimously concluded that the intended uses described herein for Cargill's erythritol ingredient, meeting appropriate food-grade specifications as described in the supporting dossier (**GRAS Determination of Erythritol for Use in Human Food**) and manufactured according to cGMP, are safe, suitable, and GRAS based on scientific procedures. A summary of the basis for the Expert Panel's conclusion is provided below.

Summary and Basis for GRAS Determination

Description

Erythritol is produced as odorless, white crystals from the fermentation broth of the yeast, *Moniliella pollinis*. The end product typically consists of more than 99.5% erythritol and is heat stable as well as nonhygroscopic. Erythritol is a naturally occurring four-carbon sugar alcohol. It is commonly found in fruits such as watermelons, pears, and grapes. Additionally, it is found in wine, sake, beer, mushrooms, and soy sauce (Shindou et al., 1989; Dubernet et al., 1974). It has also been detected in the tissues and body fluids of humans and animals (Goossens and Röper, 1994).

Manufacturing Process

Erythritol is manufactured through a multi-step process that starts with the fermentation of a pure culture of a non-toxicogenic, non-pathogenic microorganism—*Moniliella pollinis*—that feeds on a carbohydrate-based medium and ends with the purification of

erythritol from the fermentation broth. The erythritol in the fermentation broth is isolated from the organism and is then exposed to a purification treatment similar to that for other carbohydrate sweeteners and sugar alcohols (e.g., ion-exchange resin, activated charcoal, ultrafiltration, and crystallization). The final purified product contains at least 99.5% erythritol.

Analytical (physical, chemical and microbiological) results for the erythritol product confirm that the finished product meets the proposed specifications as demonstrated by the consistency of production, the lack of impurities and contaminants (e.g., heavy metals-lead, arsenic; microbiological contaminants-yeast, mold, coliforms). Further, the data provided from the analyses of three non-consecutive lots consistently demonstrates that the specifications established for Cargill's erythritol product meet or exceed the published FCC specifications.

The erythritol product should be stored in a clean, dry, and odor-free area at ambient temperature and humidity. The recommended best when used by date for erythritol standard granular under these conditions and in original unopened packaging is 3 years from the date of manufacture. For product in super sacks, the recommended best when used by date is 2 years from the date of manufacture.

History of Use

Erythritol is considered GRAS for use as a flavor enhancer, formulation aid, humectant, non-nutritive sweetener, stabilizer and thickener, sequestrant and texturizer in a variety of foods and beverages. It has had widespread use in the U.S. for more than a decade, without any reported adverse health effects in children and adults at dietary intakes resulting from its intended uses and use levels. It has been used in the following human foods: bakery fillings, cakes and cookies, chewing gum, dairy drinks, fat-based cream used in modified fat/calorie cookies, pastries, hard candies, frozen dairy desserts, puddings, reduced and low-calorie beverages, soft candies, sugar substitutes, yogurt, and others.

GRAS notifications for erythritol from several manufacturers and fatty acid esters of erythritol (listed below) have received "no questions" letters from the Food and Drug Administration (FDA).

GRN No.	Erythritol Product	Date of Closure
401	Erythritol	03/22/12
382	Erythritol	11/21/11
297	Erythritol fatty acid esters	12/15/09
208	Erythritol	01/25/07
76	Erythritol	09/11/01

Erythritol is considered GRAS for use as a flavor enhancer, formulation aid, humectant, non-nutritive sweetener, stabilizer and thickener, sequestrant and texturizer in a variety of foods. It has been used in the following human foods: bakery fillings, cakes and cookies, chewing gum, dairy drinks, fat-based cream used in modified fat/calorie cookies, pastries, hard candies, frozen dairy desserts, puddings, reduced and low-calorie beverages, soft candies, sugar substitutes, yogurt, and others.

In addition, erythritol is listed in 21 CFR § 101.80 as a noncariogenic carbohydrate sweetener with permitted health claims related to dietary carbohydrates and the occurrence of dental caries.

Globally, erythritol has achieved regulatory acceptance in multiple countries, including the European Union, Canada, Mexico, and Brazil. It is approved for use in Europe under E968, and the Joint FAO/WHO Expert Committee on Food Additives (JECFA) reviewed it in 1999 and assigned an acceptable daily intake (ADI) of “not specified” (JECFA, 2000). In Canada, it was approved for use as a food additive in November 2004. In Mexico, it is authorized for use at GMP levels. Brazil received approval effective in March 2008; it is included in the National Agency of Sanitary Surveillance (ANVISA) Sweeteners list. Erythritol is listed in Table 3 of the CODEX General Standard for Food Additives (CODEX, 2001), as a flavor enhancer, humectant and sweetener, and can be used in all categories of foods at GMP levels.

Intended Use and Intake Assessment

Erythritol is proposed for use in the United States (U.S.) in a number of additional foods and beverages, as well as some revised use levels that reflect current intended uses. The estimated daily intake (EDI) per user of all intended uses of erythritol was previously calculated by FDA to be 13 g/day at the mean and 30 g/day at the 90th percentile (US FDA 2001). The estimates in this dossier for the intake of erythritol were determined based on all existing and proposed additional food-uses and use-levels for erythritol in conjunction with food consumption data included in the U.S. National Center for Health Statistics’ (NCHS) National Health and Nutrition Examination Surveys (NHANES) 2013-2014. Calculations for the mean and 90th percentile all-person and all-user intakes were performed for each of the individual proposed food-uses of erythritol and the percentage of consumers was determined. Similar calculations were used to estimate the total intake of erythritol resulting from all proposed food-uses of erythritol combined. In both cases, the per person and per kilogram body weight intakes were reported for the following population groups:

- Infants and young children, up to and including 3 years;
- Children, ages 4 to 11;
- Female teenagers, ages 12 to 19;
- Male teenagers, ages 12 to 19;
- Female adults, ages 20 and up;
- Male adults, ages 20 and up; and
- Total population (all age and gender groups combined).

The individual proposed food-uses and use-levels for erythritol employed in the current intake analysis are summarized in the following table. Food codes representative of each proposed food-use were chosen from the NHANES 2013-2014. Food codes were grouped in food-use categories according to Title 21, Section §170.3 of the Code of Federal Regulations. Product-specific adjustment factors were developed based on data provided in the food and nutrient database for dietary studies (FNDDS) (USDA ARS, 2016) or the Food Commodity Intake Database (FCID) (U.S. EPA, 2018). All food codes included in the current intake assessment (Intertek, 2018) are listed in the Intake Assessment report in Exhibit I.

Summary of the Individual Proposed Food-Uses and Use-Levels for Erythritol in the U.S. (2013-2014 NHANES Data)

Food Category (21 CFR 170.3) (CFR, 2017)	Food-Uses	Erythritol Use-Levels (%)
Baked Goods and Baking Mixes	Baked Goods and Baking Mixes (excluding regular bread)*	15
	Bars (Granola, High Protein)*	15
	Cakes	25
	Cookies	15
Beverages, Alcoholic	Alcoholic Beverages (Lite Beer, Coolers)*	3.5
Beverages and Beverage Bases	Flavored Quenchers*	3.5
	Reduced- and Low-Calorie Carbonated and Non-Carbonated Beverages (Excluding Soy-Based Drinks)	3.5
Breakfast Cereals	Hot Cereal – Oatmeal (Instant or Cooked)	3
	Ready-to-Eat Cereals**	30
Chewing Gum	Chewing Gum	75
Condiments and Relishes	BBQ Sauce*	15
	Tomato Sauce*	15
Dairy Product Analogs	Imitation Dairy Drinks (Soy, Almond, Cashew, Coconut, and Other Plant-Based Drinks)	6
	Non-Dairy Toppings*	10
Fats and Oils	Low Calorie Salad Dressings*	15
Frozen Dairy Desserts and Mixes	Frozen Desserts (Regular Ice Cream, Soft Serve, Sorbet, Frozen Yogurt)	10
Fruit and Water Ices	Fruit-Based Slushies	3.5
Gelatins, Puddings, and Filings	Fillings (Fruit, Custard, Cream, Pudding)	15
	Puddings (Instant, Phosphate Set)	10
Hard Candy	Hard Candy (Mints, Pressed, Candies, Cough Drops)	99
Jams and Jellies	Jams and Jellies*	15
Milk Products	Dairy drinks (Chocolate and Flavored Milks)	3.5
	Fat-Based Cream Used in Modified-Fat or Low-Calorie Cookies, Cakes and Pastries	60
	Yogurt	5

Processed Fruits and Fruit Juices	Fruit-Based Smoothies*	3.5
Snack Foods	Salty Snacks*	10
Soft Candy	Fruit Novelty Snacks (e.g., Fruit Peel, Fruit Candy Bar, Fruit Leathers, Fruit Creams, Fruit Snack Candy, Gummy Fruits)	45
	Non-Chocolate Candies	45
	Soft Chocolate Candies	45
Sugar Substitutes	Sugar Substitutes	100
Sweet Sauces, Toppings, and Syrups	Canned Fruit (Syrup)*	15
	Regular or Low-Calorie Syrups or Toppings*	15

CFR = Code of Federal Regulations; U.S. = United States.

*New use not covered in 2001 GRN No. 76 (Ceresstar).

**The attached intake assessment was conducted with all cereal food codes at a 30% use level and results in a significant overestimate of erythritol intake from cereals. A use level at or approaching 30% (by weight) would only be incorporated in light weight puffed cereals as a replacement for sugar. Heavy weight (i.e., denser) cereals would likely employ a much lower use level (usually 10% or less, if used at all). It should be noted that many cereals would not incorporate erythritol for sweetening purposes at all, but rather use ingredients such as fruit and nuts for sweetness/flavor purposes. Furthermore, Tables B-1 and B-2 of the Intertek (2018) intake assessment report (Exhibit 1) show mean and 90th percentile intakes for consumption of all cereals at a 30% use level, not just puffed cereals, that are near or below the NOEL (0.71 mg/kg bw) associated with GI intolerance (Jacqz-Aigrain et al., 2015).

Estimates for the total daily intakes of erythritol from proposed food-uses are provided in the following two tables. The first summarizes the estimated total intake of erythritol on an absolute basis (g/person/day) from all proposed food-uses in the U.S. population group. The second presents this data on a per kilogram body weight basis (mg/kg body weight/day). The percentage of users was high among all age groups evaluated in the current intake assessment; greater than 79.8% of the population groups consisted of users of those food products in which erythritol is currently proposed for use. Children had the greatest percentage of users at 99.9%. Large user percentages within a population group typically lead to similar results for the all-person and all-user consumption estimates. Among the total population, the mean and 90th percentile all-user intakes of erythritol were determined to be 32.1 and 63.0 g/person/day, respectively. Of the individual population groups, male adults were determined to have the greatest mean and 90th percentile all-user intakes of erythritol on an absolute basis, at 35.6 and 69.6 g/person/day, respectively, while infants and young children had the lowest mean and 90th percentile all-user intakes of 20.6 and 41.3 g/person/day, respectively.

Summary of the Estimated Daily Intake of Erythritol from Proposed Food-Uses in the U.S. by Population Group (2013-2014 NHANES Data)

Population Group	Age Group (Years)	Per Capita Intake (g/day)		Consumer-Only Intake (g/day)			
		Mean	90 th Percentile	%	n	Mean	90 th Percentile
Infants and Young Children	0 to <4	16.5	36.5	79.8	568	20.6	41.3
Children	4 to 11	34.2	58.1	99.9	1,155	34.2	58.1
Female Teenagers	12 to 19	28.1	52.3	99.0	571	28.3	53.3
Male Teenagers	12 to 19	33.7	62.1	97.1	552	34.7	62.9

Population Group	Age Group (Years)	Per Capita Intake (g/day)		Consumer-Only Intake (g/day)			
		Mean	90 th Percentile	%	n	Mean	90 th Percentile
Female Adults	20 and up	29.2	59.1	98.3	2,337	29.7	59.8
Male Adults	20 and up	34.6	69.1	97.2	2,035	35.6	69.6
Total Population	All ages	31.1	62.1	97.0	7,218	32.1	63.0

n = sample size; NHANES = National Health and Nutrition Examination Survey; U.S. = United States.

On a body weight basis, the total population (all ages) mean and 90th percentile consumer-only intakes of erythritol were determined to be 551 and 1,179 mg/kg body weight/day, respectively. Among the individual population groups, infants and young children were identified as having the highest mean and 90th percentile all-user intakes of any population group, of 1,512 and 2,816 mg/kg body weight/day, respectively. Female adults had the lowest mean and 90th percentile all-user intakes of 405 mg/kg body weight/day, whereas male adults had the lowest 90th percentile consumer-only intakes of 815 mg/kg body weight/day.

Summary of the Estimated Daily Per Kilogram Body Weight Intake of Erythritol from Proposed Food-Uses in the U.S. by Population Group (2013-2014 NHANES Data)

Population Group	Age Group (Years)	Per Capita Intake (mg/kg bw/day)		Consumer-Only Intake (mg/kg bw/day)			
		Mean	90 th Percentile	%	n	Mean	90 th Percentile
Infants and Young Children	0 to <4	1,206	2,681	79.7	563	1,512	2,816
Children	4 to 11	1,209	2,256	99.9	1,149	1,210	2,256
Female Teenagers	12 to 19	457	971	99.3	564	460	971
Male Teenagers	12 to 19	514	1,013	97.1	550	529	1,013
Female Adults	20 and up	398	815	98.3	2,323	405	817
Male Adults	20 and up	403	805	97.2	2,026	415	815
Total Population	All ages	535	1,159	97.0	7,175	551	1,179

bw = body weight; n = sample size; NHANES = National Health and Nutrition Examination Survey; U.S. = United States.

In summary, consumption data and information pertaining to the individual proposed food-uses of erythritol were used to estimate the all-person and all-user intakes of erythritol for specific demographic groups and for the total U.S. population. This type of intake methodology is generally considered to be ‘worst case’ as a result of several conservative assumptions made in the consumption estimates. For example, it is often assumed that all food products within a food category contain the ingredient at the maximum specified level of use. Furthermore, it is often assumed that all food products within a food category contain the ingredient at the maximum specified level of use; however, a significant number of other polyols are available on the market for manufacturers to use in formulating food products, so it is unlikely that erythritol would be used at the maximum use-level in every food use category.

In addition, it is well established that the length of a dietary survey affects the estimated consumption of individual users. Short-term surveys, such as the typical 2- or 3-day dietary surveys, may overestimate the consumption of food products that are consumed relatively infrequently (Anderson, 1988). Survey duration has been shown to affect the estimated percent of consumers, as well as the classification of individuals as high or low consumers of a given food (Lambe and Kearney, 1999; Lambe et al., 2000). As reviewed by Lambe and colleagues (1999, 2000), shorter surveys are associated with misclassification of individuals, inaccurate correlation coefficients, reduced power, and overestimation of percentage of high and low intakes. These effects of survey duration are thought to be due to the within-person and day-to-day variation for a given self-selected diet. The percentage of respondents who consume a food increases as the survey duration increases; the longer duration begins to incorporate days with no consumption, thus decreasing the mean intakes among consumers over time. The impact of the length of dietary surveys on the user consumption of different types of food products has been investigated in a multi-country study conducted by the Institute of European Food Studies (1998). In general, user mean consumption was found to decrease over the length of the study, depending on the food type, and overall the average decrease in the mean or 90th percentile consumption was found to be 1.9- to 2-fold.

In summary, on an all-user basis, the mean and 90th percentile intakes of erythritol by the total population from all proposed food-uses in the U.S. were estimated to be 32.1 g/person/day (551 mg/kg body weight/day) and 63.0 g/person/day (1,179 mg/kg body weight/day), respectively. Of the individual population groups, the highest mean and 90th percentile intakes of erythritol, as observed in male adults, were estimated to be 35.6 g/person/day (415 mg/kg body weight/day) and 69.6 g/person/day (815 mg/kg body weight/day), respectively. Applying the above model, one can justify adjusting the calculated intake estimates for erythritol should be adjusted downwards by a factor of approximately 2. Taking this into account, actual intakes for the user population mean and 90th percentile levels are likely in the range of 16.1 g/day (275.5 mg/kg body weight/day) and 31.5 g/day (589.5 mg/kg body weight/day), respectively. Similarly, actual intake in the highest exposure group, infants and young children, would not likely exceed 1,408 mg/kg body weight/day. These estimates are similar to the EDI per user of all intended uses of erythritol previously calculated by FDA to be 13 g/day at the mean and 30 g/day at the 90th percentile (US FDA 2001).

Safety Data

Erythritol is a naturally-occurring compound found in a variety of foods and beverages including melons, pears, grapes, soy sauce, wine, miso paste, and sake. It also exists endogenously in tissues and body fluids of human and animals (Niwa et al., 1993; Goosens and Roper, 1994). Erythritol is recognized by the FDA as GRAS and has had widespread use in beverages and foods in the U.S. for more than a decade without any reported adverse health effects in children and adults. Several GRAS notification have received “no questions” letters from the FDA. Globally, erythritol has achieved regulatory acceptance in multiple countries, including the European Union, Canada,

Mexico, and Brazil. Erythritol is considered GRAS for use as a flavor enhancer, formulation aid, humectant, nutritive sweetener, stabilizer and thickener, sequestrant and texturizer in a variety of foods. It has been used in the following human foods: bakery fillings, cakes and cookies, chewing gum, dairy drinks, fat-based cream used in modified fat/calorie cookies, pastries, hard candies, frozen dairy desserts, puddings, reduced and low-calorie beverages, soft candies, sugar substitutes, yogurt, and others.

A recent exposure assessment resulted in estimated mean and 90th percentile intakes of erythritol (on an all-user basis) for the total population from all proposed food-uses in the U.S. of 32.1 g/person/day (551 mg/kg body weight/day) and 63.0 g/person/day (1,179 mg/kg body weight/day), respectively. The intake methodology employed is generally considered to be 'worst case' as a result of several conservative assumptions made in the consumption estimates. For example, it is often assumed that all food products within a food category contain the ingredient at the maximum specified level of use. Furthermore, it is often assumed that all food products within a food category contain the ingredient at the maximum specified level of use; however, a significant number of other polyols are available to manufacturers for use in formulating food products, so it is unlikely that erythritol would be used at the maximum use-level in every food use category. In addition, it is well established that the length of a dietary survey affects the estimated consumption of individual users. Short-term surveys, such as the typical 2- or 3-day dietary surveys, may overestimate the consumption of food products that are consumed relatively infrequently. Survey duration has been shown to affect the estimated percent of consumers, as well as the classification of individuals as high or low consumers of a given food. Shorter surveys are associated with misclassification of individuals, inaccurate correlation coefficients, reduced power, and overestimation of percentage of high and low intakes. The impact of the length of dietary surveys on the user consumption of different types of food products has been investigated and in general, user mean consumption was found to decrease over the length of the study, depending on the food type, and overall the average decrease in the mean or 90th percentile consumption was found to be 1.9- to 2-fold. Applying the above model, actual intakes for the user population mean and 90th percentile levels are likely in the range of 16.1 g/day (275.5 mg/kg body weight/day) and 31.5 g/day (589.5 mg/kg body weight/day), respectively. These estimates are similar to the EDI per user for all intended uses of erythritol previously calculated by FDA to be 13 g/day at the mean and 30 g/day at the 90th percentile (US FDA, 2001). For most food uses, intake of this much erythritol would be unlikely and studies show that intakes at this level (i.e., 30 g/day) spread over the entire day are unlikely to cause GI intolerance.

Regulatory authorities have reviewed the safety of erythritol and found it to be safe for use in human food. Numerous studies and publications support the safety of erythritol, including *in vitro* studies, *in vivo* animal studies, and clinical studies in humans. A summary of the most relevant studies on erythritol ADME, acute and subchronic toxicity, reproductive and developmental toxicity, mutagenicity and genotoxicity, chronic toxicity, carcinogenicity in animals along with clinical studies have been summarized and reviewed. The available published scientific data on the safety of erythritol in animals and man are extensive.

Although under the proposed uses of erythritol, male and female adults are estimated to consume up to 815 and 817 mg/kg body weight/day, respectively (90th percentile), and infants and young children are estimated to consume 2,816 mg/kg body weight/day (90th percentile), consideration must be given to the fact that these values were calculated based on daily consumption over multiple eating occasions, not single bolus doses. It is highly unlikely that the NOEL for laxation would be reached in a single eating occasion. For example, a 16 oz. (473mL) beverage in the U.S. containing erythritol at the maximum use-level of 3.5% for “Reduced- and Low-Calorie Carbonated and Non-Carbonated Beverages” would provide 16.5 g of erythritol per serving. In children, bolus doses containing a minimum of 20 g of erythritol have been shown to cause laxation (Jacqz-Aigrain et al., 2015) and EFSA recognized 0.71 g/kg bw (710 mg/kg bw) as a NOEL in children consuming a bolus dose; therefore, a child would need to consume 720 mL of a 3.5% erythritol sweetened beverage in a single serving to reach levels of intake that would induce laxation. This level of beverage consumption is an extremely unlikely scenario, as the volume of liquid that would be consumed in one sitting would equate to approximately 75% of the mean daily fluid intake for a child.

This is further supported by the intake assessment conducted based on the U.S. NHANES (2013-2014) dataset. Children up to 3 years of age had estimated intake mean and 90th percentile intakes of 4.1 and 8.4 g/day, respectively, from Reduced and Low-Calorie Carbonated and Non-Carbonated Beverages or 292 mg/kg bw/day and 669 mg/kg bw/day for the mean and 90th percentile users. In children 4-11 years of age, the mean and 90th percentile intake was 5.4 g/day and 8.7 g/day, respectively, or 171 mg/kg bw/day and 310 mg/kg bw/day. These are intakes below those that would be expected to cause GI Effects (Intertek, 2018). Therefore, on the basis that erythritol has had widespread use in beverages and foods in the U.S. for over a decade without any reported laxative effects in both children and adults, it is considered unlikely that such effects would manifest themselves at the similar intake levels that were estimated for the proposed uses of Cargill (Tetzloff et al., 1996).

The compositional profile of erythritol presents no obvious safety concerns. As a result, erythritol has been reviewed and approved around the world for addition to food for human consumption. In summary, the published study data, additional unpublished supporting data, and previous reviews by regulatory authorities including the U.S. FDA (e.g., GRN Nos. 76, 208, 382, 401), support the conclusion that Cargill’s erythritol ingredient is safe for use as a sweetener, at the proposed use levels foods.

General Recognition of the Safety of Erythritol

The intended use of erythritol has been determined to be safe through scientific procedures as set forth in 21 CFR§170.3(b), thus satisfying the so-called “technical” element of the GRAS determination and is based on the following:

- The erythritol product that is the subject of this GRAS determination is a polyol or sugar alcohol and is found in foods and beverages such as melons, pears, grapes,

soy sauce, wine, miso paste, and sake. It also exists endogenously in tissues and body fluids of human and animals.

- The erythritol manufacturing process includes fermentation and purification steps, and these steps in processing have been reviewed and employed for over a decade. Erythritol is manufactured consistent with cGMP for food (21 CFR Part 110). The raw materials and processing aids used in the manufacturing process are food grade and/or commonly used in food manufacturing processes.
- There is common knowledge of a long history of human consumption of erythritol. Erythritol is currently marketed for use in reduced sugar/calorie foods such as confectionary, bakery products, and beverages. Numerous erythritol ingredients are recognized as GRAS for their intended uses in foods (e.g., GRN Nos. 76, 208, 382, 401), and the erythritol ingredients have received “no questions” letters from the FDA.
- Accounting for the conservative assumptions in the current intake assessment (i.e., short survey duration, maximum use level applied to all foods, all identified foods contain only erythritol as sweetener, individuals consume all identified foods every day), actual intake estimates are similar to the EDI per user of all intended uses of erythritol previously calculated by FDA to be 13 g/day at the mean and 30 g/day at the 90th percentile (US FDA 2001). For most food uses, intake of this much erythritol would be unlikely and studies show that intakes at this level (i.e., 30 g/day) spread over the entire day are unlikely to cause GI intolerance.
- Numerous studies and publications support the safety of erythritol, including *in vitro* studies, *in vivo* animal studies, and clinical studies in humans. The relevant studies covered all toxicological endpoints relevant to human oral consumption and included ADME, acute and subchronic toxicity, reproductive and developmental toxicity, mutagenicity and genotoxicity, chronic toxicity, and carcinogenicity in animals and/or humans.
- Erythritol is rapidly absorbed such that large bolus doses are more likely to have an impact on laxation than smaller cumulative doses. As such, clinical studies have demonstrated that the tolerability of erythritol is highly dependent on the mode and timeline of ingestion. Individual tolerance develops with continued ingestion over time. Mild GI intolerance is considered to be a physiological response to osmotic loading and to be of no toxicological significance, is generally self-limiting, and not severe or indicative of toxicity per se but is a short-term individual tolerability issue similar to other foods (dried fruit) or food ingredients (fructose) or fructooligosaccharides such as inulin.
- Regulatory authorities (e.g., EFSA, FDA) have reviewed studies on the composition and safety of erythritol and found no issues of concern associated with their current use levels in a wide range of human foods.

- Therefore, the publicly available scientific literature on the safety of erythritol in animal and human studies, as well its history of consumption in human food, is extensive and sufficient to support the safety and GRAS status of the proposed uses in human food.

Since this safety evaluation was based on generally available and widely accepted data and information, it also satisfies the so-called “common knowledge” element of a GRAS determination.

Conclusions of the Expert Panel

We, the undersigned members of the Expert Panel, have individually and collectively critically reviewed the published and ancillary information pertinent to the identification, use, and safety of Cargill's erythritol product. We conclude that the erythritol ingredient produced under the conditions described in the attached dossier and meeting the proposed specifications is safe.

We further unanimously conclude that the intended uses of the erythritol product in specified foods for human consumption, meeting the specifications described above, are Generally Recognized as Safe (GRAS) based on scientific procedures and that other experts qualified to assess the safety of foods and food additives, and critically evaluating the same information, would concur with these conclusions.

Michael Carakostas, D.V.M., Ph.D.
Consultant
MC Scientific Consulting LLC

Date

Stanley M. Tarka, Jr., Ph.D., F.A.T.S.
Consultant
Tarka Group, Inc.

Date

Thomas Vollmuth, Ph.D.
Consultant
Vollmuth and Associates, LLC

Date

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(b) (6)

Michael Carakostas, D.V.M., Ph.D.
Consultant
MC Scientific Consulting LLC

29 May 2018
Date

Stanley M. Tarka, Jr., Ph.D., F.A.T.S.
Consultant
Tarka Group, Inc.

Date

Thomas Vollmuth, Ph.D.
Consultant
Vollmuth and Associates, LLC

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Michael Carakostas, D.V.M., Ph.D.
Consultant
MC Scientific Consulting LLC
(b) (6)

Date

01 June 2018

Stanley M. Tarka, Jr., Ph.D., F.A.T.S.
Consultant
Tarka Group, Inc.

Date

Thomas Vollmuth, Ph.D.
Consultant
Vollmuth and Associates, LLC

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Michael Carakostas, D.V.M., Ph.D.
Consultant
MC Scientific Consulting LLC

Date

Stanley M. Tarka, Jr., Ph.D., F.A.T.S.
Consultant
Tarka Group, Inc.

Date

(b) (6)

Thomas Vollmuth, Ph.D.
Consultant
Vollmuth and Associates, LLC

Date 5/29/18

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Bonnette, Richard

From: Don Schmitt <dschmitt@toxstrategies.com>
Sent: Friday, June 22, 2018 8:26 AM
To: Bonnette, Richard
Subject: Re: GRAS submission regarding Erythritol - confidential statement

Good morning Richard. The confidential statement on page 58 is indeed an oversight on our part. I am sorry for the inconvenience. The material is not exempt from disclosure under FOIA.

Best regards,

Don

Donald F. Schmitt, M.P.H.
Senior Managing Scientist

ToxStrategies, Inc.

739 Thornapple Drive
Naperville, IL 60540
phone: 630.352.0303
email: dschmitt@toxstrategies.com



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From: "Bonnette, Richard" <Richard.Bonnette@fda.hhs.gov>
Date: Friday, June 22, 2018 at 7:05 AM
To: "Donald Schmitt, MPH" <dschmitt@toxstrategies.com>
Subject: GRAS submission regarding Erythritol - confidential statement

Dear Mr. Schmitt,

In reviewing your recent erythritol submission (received June 7, 2018) on behalf of Cargill Inc., as part of our prefiling review, I have a quick question regarding this submission. We note that a "Confidential" statement appears on page 58. Can you confirm that this is an oversight and that the material is indeed not exempt from disclosure under FOIA?

Thanks,
Richard

Richard E. Bonnette, M.S.
Center for Food Safety and Applied Nutrition
Office of Food Additive Safety
U.S. Food and Drug Administration
Tel: 240-402-1235
richard.bonnette@fda.hhs.gov



From: [Don Schmitt](#)
To: [McMahon, Carrie](#)
Cc: [Alex Eapen](#)
Subject: Re: REGARDING: GRAS notice for erythritol (GRN 789) - food codes and FSIS statement
Date: Wednesday, September 05, 2018 5:10:13 PM
Attachments: [image002.png](#)

Dear Carrie,

Based on our conversation of September 4, 2018, Cargill wishes to revise Item 11 of Part 1 in GRN 789 as follows:

Current:

(11) FSIS Statement

Not applicable.

Revised:

(11) FSIS Statement

While erythritol is intended to be used in sauces and toppings that will be used in pour over applications on meat products, the sauces and toppings will not be used within, or as part of the actual meat product. Therefore, the intended uses of erythritol in sauces/toppings do not fall under USDA/FSIS jurisdiction. Furthermore, the intended use of erythritol in sauces and toppings is amenable with USDA's definition of sauce.

Best regards,

Don

Donald F. Schmitt, M.P.H.
Senior Managing Scientist

ToxStrategies, Inc.
739 Thornapple Drive
Naperville, IL 60540
phone: 630.352.0303
email: dschmitt@toxstrategies.com



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From: "McMahon, Carrie" <Carrie.McMahon@fda.hhs.gov>
Date: Tuesday, September 4, 2018 at 10:37 AM
To: "Donald Schmitt, MPH" <dschmitt@toxstrategies.com>
Subject: RE: REGARDING: GRAS notice for erythritol (GRN 789) - food codes and FSIS statement

Dear Mr. Schmitt,

REGARDING: GRN 789

On page 14 of its GRAS notice, Cargill states that erythritol is intended to be used in sauces and toppings that will be used on meat products but not within or as part of the actual meat product. To be sure that we understand the scope of the intended use of erythritol, we request that Cargill clarify its FSIS Statement "Not Applicable" under Item 11 of Part 1.

In your clarification, please state whether the intended uses of erythritol in sauces/toppings do or not fall under USDA's jurisdiction. More information about USDA's jurisdiction, amenability, and the definition of sauce is available here:

<https://www.fsis.usda.gov/wps/wcm/connect/7c48be3e-e516-4ccf-a2d5-b95a128f04ae/Labeling-Policy-Book.pdf?MOD=AJPERES>

If you have any questions, please don't hesitate to contact me.

Regards,

Carrie McMahon, Ph.D.

Consumer Safety Officer

Center for Food Safety and Applied Nutrition

Office of Food Additive Safety

U.S. Food and Drug Administration

Tel: 240-402-1202

Carrie.McMahon@fda.hhs.gov

