

Neocate Syneo Infant Dilution Chart

	Volume of Water		Amount of Neocate Powder*		Approx. Final Volume†	
	fl oz	mL	Scoops	Grams	fl oz	mL
20 kcal/fl oz						
0.67 kcal/mL	3.0	90	3	14.1	3.3	100
1.89 g PE/100 mL	5.0	150	5	23.5	5.5	165
Osmolality:	8.0	240	8	37.6	9.0	270
360 mOsm/kg	22.0	660	22	103	24.4	735
~90.0% Free Water	30.0	900	30	141	33.3	1000
22 kcal/fl oz	4.5	135	5	23.5	5.1	150
0.73 kcal/mL	8.0	240	9	42.3	9.0	270
2.08 g PE/100 mL	11.0	330	12	56.4	12.3	370
390 mOsm/kg	21.0	630	23	108	23.6	705
~89.0% Free Water	29.0	870	32	150	32.6	975
24 kcal/fl oz	6.5	195	8	37.6	7.4	220
0.80 kcal/mL	9.0	270	11	51.7	10.2	305
2.27 g PE/100 mL	13.0	390	16	75.2	14.8	445
420 mOsm/kg	21.0	630	26	122	23.9	715
~88.0% Free Water	28.0	840	34	160	31.8	955
27 kcal/fl oz	5.0	150	7	32.9	5.8	175
0.90 kcal/mL	6.5	195	9	42.3	7.5	225
2.56 g PE/100 mL	10.0	300	14	65.8	11.6	345
490 mOsm/kg	21.0	630	29	136	24.2	725
~86.5% Free Water	28.0	840	39	183	32.3	970

Neocate Infant DHA/ARA Dilution Chart

	Volume of Water		Amount of Neocate Powder*		Approx. Final Volume†	
	fl oz	mL	Scoops	Grams	fl oz	mL
20 kcal/fl oz						
0.67 kcal/mL	3.0	90	3	13.8	3.3	100
1.86 g PE/100 mL	5.0	150	5	23.0	5.5	166
Osmolality:	8.0	240	8	36.8	9.0	266
340 mOsm/kg	14.0	420	14	64.4	15.5	465
~90.3% Free Water	29.0	870	29	133	32.1	963
22 kcal/fl oz	4.5	135	5	23.0	5	151
0.73 kcal/mL	8.0	240	9	41.4	9	269
2.05 g PE/100 mL	13.5	405	15	69.0	15.1	453
380 mOsm/kg	21.0	630	23	106	23.5	704
~89.4% Free Water	29.0	870	32	147	32.4	973
24 kcal/fl oz	2.5	75	3	13.8	2.8	85
0.80 kcal/mL	6.5	195	8	36.8	7.4	221
2.24 g PE/100 mL	13.0	390	16	73.6	14.7	442
410 mOsm/kg	21.0	630	26	120	23.8	714
~88.4% Free Water	28.5	855	35	161	32.3	968
27 kcal/fl oz	5.0	150	7	32.2	5.8	173
0.90 kcal/mL	8.5	255	12	55.2	9.8	294
2.52 g PE/100 mL	12.0	360	17	78.2	13.8	415
470 mOsm/kg	21.0	630	29	133	24.1	723
~87.0% Free Water	28.0	840	39	179	32.2	966

* Scoops should be level and unpacked. Dilutions are more accurate using weighed powder vs. scoops. See reverse for scoop size, energy density, and displacement factor.
 † This chart assumes 1 fl oz = 30 mL. Water volumes are exact, but final volume of prepared formula may vary slightly.

Find more comprehensive dilution charts online at
Nutricia Learning Center

Neocate Junior Dilution Charts

	Volume of Water		Amount of Neocate Powder*		Approx. Final Volume†	
	fl oz	mL	Scoops	Grams	fl oz	mL
Neocate Junior, Unflavored						
30 kcal/fl oz	4	120	4	29.2	4.7	140
1.0 kcal/mL	7	210	7	51.1	8.2	245
3.1 g PE/100 mL	10	300	10	73.0	11.7	350
600 mOsm/kg	21	630	21	153	24.5	735
~85.6% Free Water	28	840	28	204	32.7	980
45 kcal/fl oz	5.5	165	9	65.7	7.0	210
1.5 kcal/mL	8.5	255	14	102	10.9	325
4.6 g PE/100 mL	11	330	18	131	14.0	420
Est'd 900 mOsm/kg [‡]	19	570	31	226	24.2	725
~78.4% Free Water	25	750	41	299	31.9	955
Neocate Junior with Prebiotics, Unflavored						
30 kcal/fl oz	3.5	100	3	24.6	4.0	120
1.0 kcal/mL	6.5	200	6	49.2	8.0	240
3.35 g PE/100 mL	11.0	330	10	82.0	13.0	391
550 mOsm/kg	20.0	600	18	148	24.0	715
~84.5% Free Water	28.0	840	25	205	33.1	992
45 kcal/fl oz	4.0	120	6	49.2	5.2	156
1.5 kcal/mL	8.0	240	12	98.4	10.4	313
5.02 g PE/100 mL	12.0	360	18	148	15.6	469
Est'd 825 mOsm/kg [‡]	18.0	540	27	221	23.5	704
~76.8% Free Water	25.0	750	37	303	32.5	975
Neocate Junior with Prebiotics, Vanilla						
30 kcal/fl oz	4.0	120	4	32.8	5.0	150
1.0 kcal/mL	7.5	225	7	57.4	9.0	270
3.49 g PE/100 mL	14.0	420	13	107	16.5	496
650 mOsm/kg	21.0	630	20	164	25.0	750
~84.5% Free Water	28.0	840	26	213	33.0	991
45 kcal/fl oz	4.5	135	7	57.4	5.9	176
1.5 kcal/mL	7.0	210	11	90.2	9.1	274
5.23 g PE/100 mL	11.0	330	17	139	14.3	429
Est'd 975 mOsm/kg [‡]	20.0	600	31	254	26.0	780
~76.8% Free Water	25.0	750	39	320	32.6	977
Neocate Junior with Prebiotics, Strawberry						
30 kcal/fl oz	4.0	120	4	32.0	5.0	150
1.0 kcal/mL	7.5	225	7	56.0	9.0	270
3.41 g PE/100 mL	11.5	345	11	88.0	13.6	407
630 mOsm/kg	21.0	630	20	160	25.0	750
~84.9% Free Water	28.0	840	26	208	32.9	988
45 kcal/fl oz	4.5	135	7	56.0	5.8	175
1.5 kcal/mL	9.0	270	14	112	11.7	350
5.12 g PE/100 mL	13.0	390	20	160	16.8	504
Est'd 945 mOsm/kg [‡]	20.0	600	31	248	25.9	776
~77.3% Free Water	26.0	780	40	320	33.6	1007
Neocate Junior, Tropical & Chocolate						
30 kcal/fl oz	4.0	120	4	32.8	5.0	145
1.0 kcal/mL	7.0	210	7	57.4	8.0	255
3.55 g PE/100 mL	11.5	345	11	90.2	13.7	410
640 mOsm/kg	20.0	600	20	164	24.0	730
~84.0% Free Water	28.0	840	27	221	33.3	999
45 kcal/fl oz	5.0	150	8	65.6	6.6	197
1.5 kcal/mL	7.5	225	12	98.4	9.9	296
5.32 g PE/100 mL	12.5	375	20	164	16.4	493
Est'd 960 mOsm/kg [‡]	18.0	540	29	238	23.7	711
~76.1% Free Water	25.0	750	40	328	32.9	986

* Scoops should be level and unpacked. Dilutions are more accurate using weighed powder vs. scoops. See reverse for scoop size, energy density, and displacement factor.
 † This chart assumes 1 fl oz = 30 mL. Water volumes are exact, but final volume of prepared formula may vary slightly.
 ‡ Derived from osmolality at standard dilution; assumes direct linear relationship with formula concentration.



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1. Sampson HA, et al. Pediatrics. 1992;90:463-5. 2. Hill DJ, et al. J Pediatr. 1999;135:118-21. 3. De Greef E, et al. J Nutr Metab. 2010;2010.

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ZNPPG2018 5/18



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NEOCATE® PROVIDES THE BROADEST RANGE OF AMINO ACID-BASED PRODUCTS DESIGNED FOR YOUR PATIENTS' NEEDS

The Neocate family of products is hypoallergenic and shown to be effective in the nutrition management of cow milk allergy, multiple food allergies, and related GI and allergic conditions.¹⁻³

For Healthcare Professionals only



	 Neocate® Syneo® Infant	 Neocate® Infant DHA/ARA	 Neocate® Nutra	 Neocate® Junior, Unflavored	 Neocate® Junior with Prebiotics, Unflavored	 Neocate® Junior with Prebiotics, Vanilla	 Neocate® Junior with Prebiotics, Strawberry	 Neocate® Junior, Tropical & Chocolate	 Neocate® Splash Unflavored, Orange-Pineapple, Grape, Tropical Fruit
Description	A nutritionally complete, powdered amino acid-based infant formula with prebiotics and probiotic <i>B. breve</i> M-16V	A nutritionally complete, powdered amino acid-based infant formula containing nucleotides	The first and only amino acid-based semi-solid supplement	A nutritionally complete, powdered amino acid-based unflavored formula	A nutritionally complete, powdered amino acid-based unflavored formula with prebiotics	A nutritionally complete, powdered amino acid-based formula with prebiotics	A nutritionally complete, powdered amino acid-based formula with prebiotics	A nutritionally complete, powdered amino acid-based formula	A nutritionally complete, amino acid-based ready-to-feed formula
Ages	Infants 0-12 months	Infants 0-12 months	6+ months	1+ years	1+ years	1+ years	1+ years	1+ years	1+ years
Calories per 400 gram can (kcal)	1900	1932	1888	1916	1912	1836	1876	1804	-
Calories per gram (kcal)	4.75	4.83	4.72	4.79	4.78	4.59	4.69	4.51	-
Grams/scoop (level, unpacked)	4.7	4.6	4.6	7.3	8.2	8.2	8.0	8.2	-
Calories/scoop (kcal)	22.3	22.2	21.8	35.0	39.2	37.6	37.5	37	-
Water displaced/gram (mL)	0.71	0.70	-	0.69	0.74	0.71	0.71	0.72	-
Water displaced/scoop (mL)	3.34	3.22	-	5.04	6.07	5.82	5.68	5.90	-
Protein/scoop (g)	0.63	0.62	0.38	1.08	1.31	1.31	1.28	1.31	-
Standard Dilution	20 kcal/fl oz (0.67 kcal/mL)	20 kcal/fl oz (0.67 kcal/mL)	-	30 kcal/fl oz (1.0 kcal/mL)	30 kcal/fl oz (1.0 kcal/mL)	30 kcal/fl oz (1.0 kcal/mL)	30 kcal/fl oz (1.0 kcal/mL)	30 kcal/fl oz (1.0 kcal/mL)	30 kcal/fl oz (1.0 kcal/mL)
% Free Water*	90.0%	90.3%	-	85.6%	84.5%	84.5%	84.9%	84.0%	84.6%
Osmolality,* mOsm/kg H ₂ O	360	340	-	600	550	650	630	630 Tropical, 650 Chocolate	670 Unflavored, 740 Grape, 790 Orange-Pineapple & Tropical Fruit
PRSL (RSL),* mOsm/L	176	168	-	280 (255)	295 (269)	305 (283)	301 (275)	309 (283)	275 (249)
Prepared volume per unit (can or drink box)*	~95 fl oz 2850 mL	~97 fl oz 2900 mL	-	63.9 fl oz 1915 mL	63.7 fl oz 1910 mL	61.2 fl oz 1835 mL	62.5 fl oz 1875 mL	60.1 fl oz 1805 mL	8 fl oz 237 mL
Approximate scoops per can*	~85	~87	~86	~55	~49	~49	~50	~49	-
NUTRIENTS, per 100 kcal									
Powder to provide 100 kcal (g)	21.1	20.7	21.2	20.9	20.9	21.8	21.3	22.2	-
Protein Equivalent, g (% total kcals)	2.8 (11.4%)	2.8 (11.2%)	1.7 (7%)	3.1 (12.4%)	3.3 (13%)	3.5 (14%)	3.4 (14%)	3.5 (14%)	3.0 (12%)
Protein Source	Free amino acids	Free amino acids	Free amino acids	Free amino acids	Free amino acids	Free amino acids	Free amino acids	Free amino acids	Free amino acids
Carbohydrate, g (% total kcals)	11.3 (45.1%)	10.8 (43.1%)	14.3 (57%)	10.7 (42.6%)	10.4 (42%)	11.2 (45%)	11.3 (45%)	11.0 (44%)	10.5 (42%)
Soluble Fiber, g	0.95	0	0	0	0.40	0.41	0.40	0	0
Carbohydrate Sources (Refined Carbohydrates)	Corn Syrup Solids, Fructooligosaccharides (Oligofructose, Inulin)	Corn Syrup Solids	Corn Syrup Solids, Rice Starch, Sugar	Corn Syrup Solids, Maltodextrin	Corn Syrup Solids, Fructooligosaccharide, Inulin	Corn Syrup Solids, Sugar, Fructooligosaccharide, Inulin	Corn Syrup Solids, Sugar, Fructooligosaccharide, Inulin	Corn Syrup Solids (Chocolate also contains Sugar)	Maltodextrin (Corn), Sugar
Fat, g (% total kcals)	4.8 (43.5%)	5.1 (45.7%)	4.0 (36%)	5.0 (45%)	5.0 (45%)	4.6 (41%)	4.6 (41%)	4.7 (42%)	5.1 (46%)
MCT:LCT Ratio	33:67	33:67	4:96	35:65	35:65	35:65	35:65	35:65	35:65
Linoleic Acid, mg	705	738	683	818	549	501	500	510	292 Unflav, 325 Flavors
Fat Sources (Refined Oils)	MCT (Modified Coconut and/or Palm Kernel), High Oleic Sunflower, Canola, <i>M. alpina</i> & <i>C. cohnii</i> (DHA & ARA)	MCT (Modified Coconut and/or Palm Kernel), Sunflower, Canola, <i>M. alpina</i> & <i>C. cohnii</i> (DHA & ARA)	Coconut, High Oleic Sunflower, Canola, Sunflower	MCT (Modified Palm Kernel and/or Coconut), High Oleic Sunflower, Sunflower, Canola	MCT (Modified Palm Kernel and/or Coconut), Canola, High Oleic Safflower	MCT (Modified Palm Kernel and/or Coconut), Canola, High Oleic Safflower	MCT (Modified Palm Kernel and/or Coconut), Canola, High Oleic Safflower	MCT (Modified Palm Kernel and/or Coconut), Canola, High Oleic Safflower	High Oleic Sunflower, MCT (Modified Palm Kernel and/or Coconut), Canola
NPC:N Ratio (kcal/g N)	-	-	-	177:1	162:1	154:1	158:1	151:1	184:1
Calcium, mg (mEq)	116 (5.8)	116 (5.8)	141 (7.0)	118 (5.9)	118 (5.9)	118 (5.9)	120 (6.0)	120 (6.0)	118 (5.9)
Phosphorus, mg (mEq)	81.7 (5.3)	82.2 (5.3)	72.0 (4.6)	79.8 (5.2)	79.9 (5.2)	80.0 (5.2)	81.5 (5.3)	79.6 (5.1)	80.0 (5.2)
Sodium, mg (mEq)	38.9 (1.7)	39.1 (1.7)	8.0 (0.35)	50.0 (2.2)	50.0 (2.2)	50.1 (2.2)	51.0 (2.2)	49.9 (2.2)	50.0 (2.2)
Chloride, mg (mEq)	79.6 (2.2)	79.9 (2.3)	9.3 (0.26)	76.1 (2.1)	76.2 (2.1)	76.0 (2.1)	77.6 (2.2)	76.1 (2.1)	76.0 (2.1)
Potassium, mg (mEq)	108 (2.8)	109 (2.8)	<4.2 (<0.11)	136 (3.5)	137 (3.5)	142 (3.6)	139 (3.6)	145 (3.7)	137 (3.5)
Iron, mg - [Magnesium, mg] - [Zinc, mg]	1.5 [10.5] [1.1]	1.5 [10.6] [1.1]	1.3 [4.4] [0.9]	1.5 [16.0] [0.98]	1.6 [16.0] [0.98]	1.6 [16.7] [1.0]	1.6 [16.3] [1.0]	1.6 [17.0] [1.0]	1.5 [16.0] [0.98]
Vitamin D, IU (mcg)	74.1 (1.9)	72.9 (1.8)	36.4 (0.91)	79.4 (2.0)	79.5 (2.0)	79.3 (2.0)	79.3 (2.0)	79.8 (2.0)	80.0 (2.0)
Vitamin A, IU (mcg RE)	285 (85.5)	280 (84.1)	137 (41.0)	200 (60.0)	200 (60.0)	200 (60.0)	204 (61.2)	200 (60.0)	200 (60.0)
Vitamin K, mcg	9.0	8.8	3.9	4.0	4.0	4.2	4.1	4.3	4.0
Approximate Household Measures†									
1 Cup (240 mL)	130 g	126 g	126 g	120 g	129 g	120 g	111 g	116 g	-
½ Cup (120 mL)	65.0 g	63.0 g	63.0 g	60.0 g	64.5 g	60.0 g	55.5 g	58.0 g	-
⅓ Cup (80 mL)	43.3 g	42.0 g	42.0 g	40.0 g	43.0 g	40.0 g	37.0 g	38.7 g	-
¼ Cup (60 mL)	32.5 g	31.5 g	31.5 g	30.0 g	32.3 g	30.0 g	27.8 g	29.0 g	-
1 Tbsp (15 mL)	8.1 g	7.9 g	7.9 g	7.5 g	8.1 g	7.5 g	6.9 g	7.3 g	-
1 tsp (5 mL)	2.7 g	2.6 g	2.6 g	2.5 g	2.7 g	2.5 g	2.3 g	2.4 g	-
½ tsp (2.5 mL)	1.4 g	1.3 g	1.3 g	1.3 g	1.4 g	1.3 g	1.2 g	1.2 g	-
Meets or exceeds DRIs for protein + 25 key vitamins & minerals									
				1-3 years	930 kcal	930 kcal	930 kcal	930 kcal	930 kcal
				4-8 years	1370 kcal	1370 kcal	1370 kcal	1370 kcal	1370 kcal
				9-13 years	1565 kcal	1565 kcal	1565 kcal	1565 kcal	1565 kcal
				14-18 years	2550 kcal	2550 kcal	2550 kcal	2550 kcal	2550 kcal

* At standard dilution, as listed in table.

† Household measures are based on standard US, dry household measures. All measures are level and unpacked. These values are approximations only, whereas the scoops Nutricia provides are validated for use with Nutricia formulas.

Nutricia North America recommends using a scale for greatest accuracy.

All products suitable for oral or enteral delivery except: Neocate Syneo Infant is not recommended for use in post-pyloric feeding tubes unless directed and supervised by a healthcare professional; Neocate Nutra, a semi-solid, is not intended for delivery by bottle or feeding tube.