

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	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	10.0	300	9	73.8	11.8	353
550 mOsm/kg	20.0	600	18	148	24.0	715
~84.9% Free Water	28.0	840	25	205	32.9	988
45 kcal/fl oz	4.0	120	6	49.2	5.2	155
1.5 kcal/mL	7.5	225	11	90.2	9.7	290
5.02 g PE/100 mL	9.5	285	14	115	12.3	368
Est'd 825 mOsm/kg‡	15.5	465	23	189	20.0	601
~77.4% Free Water	25.0	750	37	303	32.3	968
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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