

Conversion from Potassium Citrate & Sodium Bicarbonate to Tricitrates oral solution

Note: when converting from the combination of Bicarbonate and Potassium citrate, the Potassium Citrate is usually the constituent which determines the volume of Tricitrates Oral solution to use. This conversion must be under the guidance of a Paediatric Nephrologist

Potassium Citrate BP (mls)	Constituents of Potassium Citrate (mmol)		
	Potassium	Citrate	Bicarbonate
1	2.8	0.9	2.8
2	5.6	1.8	5.6
3	8.4	2.7	8.4
4	11.2	3.6	11.2
5	14	4.5	14
6	16.8	5.4	16.8
7	19.6	6.3	19.6
8	22.4	7.2	22.4
9	25.2	8.1	25.2
10	28	9	28
11	30.8	9.9	30.8
12	33.6	10.8	33.6
13	36.4	11.7	36.4
14	39.2	12.6	39.2
15	42	13.5	42
16	44.8	14.4	44.8
17	47.6	15.3	47.6
18	50.4	16.2	50.4
19	53.2	17.1	53.2
20	56	18	56
21	58.8	18.9	58.8
22	61.6	19.8	61.6
23	64.4	20.7	64.4
24	67.2	21.6	67.2
25	70	22.5	70
26	72.8	23.4	72.8
27	75.6	24.3	75.6

Tricitrate oral solution (mls)	Total Contents (mmol)			
	Sodium	Citrate	Potassium	Bicarbonate
3	2.8	1.96	2.8	5.6
6	5.6	3.92	5.6	11.2
8	8.4	5.88	8.4	16.8
11	11.2	7.84	11.2	22.4
14	14	9.8	14	28
17	16.8	11.76	16.8	33.6
20	19.6	13.72	19.6	39.2
22	22.4	15.68	22.4	44.8
25	25.2	17.64	25.2	50.4
28	28	19.6	28	56
31	30.8	21.56	30.8	61.6
34	33.6	23.52	33.6	67.2
36	36.4	25.48	36.4	72.8
39	39.2	27.44	39.2	78.4
42	42	29.4	42	84
45	44.8	31.36	44.8	89.6
48	47.6	33.32	47.6	95.2
50	50.4	35.28	50.4	100.8
53	53.2	37.24	53.2	106.4
56	56	39.2	56	112
59	58.8	41.16	58.8	117.6
62	61.6	43.12	61.6	123.2
64	64.4	45.08	64.4	128.8
67	67.2	47.04	67.2	134.4
70	70	49	70	140
73	72.8	50.96	72.8	145.6
76	75.6	52.92	75.6	151.2

Potassium Citrate BP (mls)	Constituents of Potassium Citrate (mmol)		
	Potassium	Citrate	Bicarbonate
28	78.4	25.2	78.4
29	81.2	26.1	81.2
30	84	27	84
31	86.8	27.9	86.8
32	89.6	28.8	89.6
33	92.4	29.7	92.4
34	95.2	30.6	95.2
35	98	31.5	98
36	100.8	32.4	100.8
37	103.6	33.3	103.6
38	106.4	34.2	106.4
39	109.2	35.1	109.2
40	112	36	112
41	114.8	36.9	114.8
42	117.6	37.8	117.6
43	120.4	38.7	120.4
44	123.2	39.6	123.2
45	126	40.5	126
46	128.8	41.4	128.8
47	131.6	42.3	131.6
48	134.4	43.2	134.4
49	137.2	44.1	137.2
50	140	45	140

Tricitrate oral solution (mls)	Total Contents (mmol)			
	Sodium	Citrate	Potassium	Bicarbonate
78	78.4	54.88	78.4	156.8
81	81.2	56.84	81.2	162.4
84	84	58.8	84	168
87	86.8	60.76	86.8	173.6
90	89.6	62.72	89.6	179.2
92	92.4	64.68	92.4	184.8
95	95.2	66.64	95.2	190.4
98	98	68.6	98	196
101	100.8	70.56	100.8	201.6
104	103.6	72.52	103.6	207.2
106	106.4	74.48	106.4	212.8
109	109.2	76.44	109.2	218.4
112	112	78.4	112	224
115	114.8	80.36	114.8	229.6
118	117.6	82.32	117.6	235.2
120	120.4	84.28	120.4	240.8
123	123.2	86.24	123.2	246.4
126	126	88.2	126	252
129	128.8	90.16	128.8	257.6
132	131.6	92.12	131.6	263.2
134	134.4	94.08	134.4	268.8
137	137.2	96.04	137.2	274.4
140	140	98	140	280

Notes

Potassium Citrate BP

1ml equates to 2.8mmol of Potassium, 0.9mmol of citrate and an equivalent of 2.8mmol of bicarbonate

Polycitra

1ml equates to 1mmol of Potassium, 1mmol Sodium 0.7mmol of citrate and an equivalent of 2mmol of bicarbonate

Tricitrates Oral Solution

1ml equates to 1mmol of Potassium, 1mmol Sodium 0.7mmol of citrate and an equivalent of 2mmol of bicarbonate

Further Information

In the Paediatric Formulary under CITRATE SOLUTIONS