

h2o2-percent-ppm calculations
2/16/2019

Equipment:

- 1) Test Strips (1, 3, 10, 30, 50 ppm steps)
- 2) 2 x 15 ml grad tube
- 3) 2 Droppers
- 5) Bottle of distilled water with dropper
- 6) Tube rack

Procedure

- 1) Label tube #1 and tube #2
- 2) Put 14 ml distilled water in tube #1
- 3) Put 3 ml distilled water in tube # 2 (or 14 ml if known 35%)
- 4) Dilute 3 drops of sample in tube #1, mix
- 5) Dilute 3 drops of #1 into #2, measure >>> 3% = 15 ppm, 1% = 5 ppm, 0.6% = 3ppm, 0.375% = 1.875 ppm
- 6) If 35% or # 2 too dark: Add 11 ml to #2 (to total 14.15 ml), measure >>> 35% > 39.3 ppm

5 ppm max for chlorine, best at 2-3 ppm

strips 1, 3, 10, 30, 50, best between 3-10 dilute 1 drop in 1st quantity, then dilute 1 drop of 1st amount in 2nd

start %	Sample 1 ml	S1 dil ml	Sample 2 ml	S2 dil ml	1,981	final ppm
0.375000%	0.15	14.00	0.15	3.00	1,981	1.8930
0.500000%	0.15	14.00	0.15	3.00	1,981	2.5240
1.000000%	0.15	14.00	0.15	3.00	1,981	5.0480
3.000000%	0.15	14.00	0.15	3.00	1,981	15.1439
6.000000%	0.15	14.00	0.15	3.00	1,981	30.2877
35.000000%	0.15	14.00	0.15	14.00	8,899	39.3312

Final %	Final ppm	gm/L	mg/L	mg/ml	mg/drop	mcg/drop	35% 1 drop in drops	1 drop in ml	oz	3.00% 1 drop in ml	oz
35.000000%	350,000	350.0000	350,000.00	350.0000	7.0000	7000.0000	1	0	0.00	0	0.00
3.000000%	30,000	30.0000	30,000.00	30.0000	0.6000	600.0000	12	1	0.02	1	0.05
1.000000%	10,000	10.0000	10,000.00	10.0000	0.2000	200.0000	35	2	0.06	3	0.15
0.500000%	5,000	5.0000	5,000.00	5.0000	0.1000	100.0000	70	4	0.12	6	0.30
0.300000%	3,000	3.0000	3,000.00	3.0000	0.0600	60.0000	117	6	0.20	10	0.50
0.250000%	2,500	2.5000	2,500.00	2.5000	0.0500	50.0000	140	7	0.24	12	0.60
0.125000%	1,250	1.2500	1,250.00	1.2500	0.0250	25.0000	280	14	0.47	24	1.20
0.010000%	100	0.1000	100.00	0.1000	0.0020	2.0000	3,500	175	5.92	300	15.00
0.005000%	50	0.0500	50.00	0.0500	0.0010	1.0000	7,000	350	11.84	600	30.00
0.003000%	30	0.0250	25.00	0.0250	0.0005	0.5000	11,667	583	19.73	1,000	50.00
0.001167%	12	0.0117	11.67	0.0117	0.0002	0.2333	30,000	1,500	50.73	2,571	128.57
0.001000%	10	0.0100	10.00	0.0100	0.0002	0.2000	35,000	1,750	59.18	3,000	150.00
0.000300%	3	0.0030	3.00	0.0030	0.0001	0.0601	116,550	5,828	197.07	9,990	499.50
0.000100%	1	0.0010	1.00	0.0010	0.0000	0.0400	350,000	17,500	591.82	30,000	1,500.00
0.000098%	1	0.0010	0.98	0.0010	0.0000	0.0390	358,974	17,949	606.99	30,769	1,538.46