

DILUTIONS & EQUIVALENCIES

DILUTION RATIO:

Divide ounces per gallon into 128

Examples:

- 1) 1.5 oz. per gallon dilution
 $128 \div 1.5 = 85$
 Answer = 1:85 dilution ratio

NOTE

It is necessary to first convert dilutions to ounces for one gallon

Example: Dilution given is 10 ounces per 5 gallons. Divide 10 by 5 ($10 \div 5 = 2$). Answer = two ounces per gallon. Now divide the ounces per gallon into 128 ($128 \div 2 = 64$). Answer = use dilution is 1:64

DILUTION RATION

OUNCES PER GALLON

1 TO 4	32
1 TO 5	26
1 TO 10	12
1 TO 12	10
1 TO 15	8
1 TO 20	6
1 TO 32	4
1 TO 40	3
1 TO 50	2.5
1 TO 60	2
1 TO 64	2
1 TO 100	1
1 TO 128	1
1 TO 256	.5

METRIC VOLUME EQUIVALENTS

3 Teaspoons	=	1 tablespoon	=	15ml
8 Tablespoons	=	1/2 cup	=	118ml
16 Tablespoons	=	1 cup	=	237ml
1 fluid ounce	=	2 tablespoons	=	30ml
8 fluid ounces	=	1 cup	=	237ml
16 fluid ounces	=	2 cups	=	473ml
32 fluid ounces	=	4 cups or 1 quart	=	946ml
128 fluid ounces	=	1 gallon	=	3.78 liters

PART PER MILLION (PPM) OF ACTIVE DISINFECTANT IN VARIOUS USE-DILUTION RATIOS:

Multiply percentage of active disinfectant times times 10,000, and divide by use-dilution rate

$$\frac{\% \text{active} \times 10,000}{\text{dilution rate}}$$

Example:

- 1) Given active percentage if 4.5%
 At 1:256 (.5 oz. per gallon)
 $(4.5 \times 10,000) \div 256 = 176$ ppm active
- 2) At 1:128 (1 oz. per gallon)
 $(4.5 \times 10,000) \div 128 = 352$ ppm active

COST PER DILUTIONS



COST PER UNIT	1:4	1:8	1:10	1:12	1:16	1:20	1:25	1:32	1:40	1:64	1:128	1:256
\$2.00	.500	.250	.200	.167	.125	.100	.080	.063	.050	.031	.016	.008
\$2.25	.563	.281	.225	.188	.141	.113	.090	.070	.056	.035	.018	.009
\$2.50	.625	.313	.250	.208	.156	.125	.100	.078	.063	.039	.020	.010
\$2.75	.688	.344	.275	.229	.172	.138	.110	.086	.069	.043	.022	.011
\$3.00	.750	.375	.300	.250	.188	.150	.120	.094	.075	.047	.023	.012
\$3.25	.813	.407	.325	.271	.203	.163	.130	.102	.081	.058	.025	.013
\$3.50	.875	.438	.350	.292	.219	.175	.140	.109	.088	.055	.027	.014
\$3.75	.938	.469	.375	.313	.234	.188	.150	.117	.094	.059	.029	.015
\$4.00	1.00	.500	.400	.333	.252	.200	.160	.125	.100	.063	.031	.016
\$4.25	1.063	.531	.425	.354	.266	.213	.170	.133	.106	.066	.033	.017
\$4.50	1.125	.563	.450	.375	.281	.225	.180	.141	.113	.070	.035	.018
\$4.75	1.188	.594	.475	.396	.297	.238	.190	.148	.119	.074	.037	.019
\$5.00	1.250	.625	.500	.417	.313	.250	.200	.156	.125	.078	.039	.020
\$5.25	1.312	.656	.525	.438	.328	.263	.21	.164	.131	.082	.041	.021
\$5.50	1.375	.688	.550	.458	.344	.275	.220	.172	.138	.086	.043	.022
\$5.75	1.438	.719	.575	.479	.359	.288	.230	.180	.144	.090	.045	.023
\$6.00	1.500	.750	.600	.500	.375	.300	.240	.188	.150	.094	.047	.024
\$6.25	1.563	.781	.625	.528	.391	.313	.250	.195	.156	.098	.049	.025
\$6.50	1.625	.813	.650	.542	.406	.325	.260	.203	.163	.102	.051	.026
\$6.75	1.688	.844	.675	.563	.422	.338	.270	.211	.169	.105	.053	.027
\$7.00	1.750	.875	.700	.583	.438	.350	.280	.219	.175	.109	.055	.028
\$7.25	1.813	.906	.725	.604	.453	.363	.290	.227	.181	.113	.057	.029
\$7.50	1.875	.938	.750	.625	.469	.375	.300	.234	.188	.117	.059	.030
\$7.75	1.938	.969	.775	.646	.484	.388	.310	.242	.194	.121	.061	.031
\$8.00	2.000	1.000	.800	.667	.500	.400	.320	.250	.200	.125	.063	.032
\$8.25	2.063	1.031	.825	.688	.516	.413	.330	.258	.206	.129	.065	.033
\$8.50	2.125	1.063	.850	.708	.531	.425	.340	.266	.213	.133	.066	.034
\$8.75	2.188	1.094	.875	.729	.547	.438	.350	.273	.219	.137	.068	.035
\$9.00	2.225	1.125	.900	.750	.563	.450	.360	.281	.225	.141	.070	.036
\$9.25	2.313	1.156	.925	.771	.578	.463	.370	.289	.231	.145	.072	.037
\$9.50	2.375	1.188	.950	.792	.594	.475	.380	.297	.238	.149	.074	.038
\$9.75	2.438	1.219	.975	.813	.609	.488	.390	.305	.244	.152	.076	.039
\$10.00	2.500	1.250	1.000	.833	.625	.500	.400	.313	.250	.156	.078	.040
\$10.25	2.563	1.281	1.025	.854	.641	.513	.410	.320	.256	.160	.080	.041
\$10.50	2.625	1.313	1.050	.875	.656	.525	.420	.328	.263	.164	.082	.042
\$10.75	2.688	1.344	1.075	.896	.672	.538	.430	.336	.269	.168	.084	.043
\$11.00	2.750	1.375	1.100	.917	.688	.550	.440	.344	.275	.172	.086	.043
\$11.25	2.813	1.406	1.125	.938	.703	.563	.450	.352	.281	.176	.088	.044
\$11.50	2.875	1.438	1.150	.958	.719	.575	.460	.359	.288	.180	.090	.045
\$11.75	2.938	1.469	1.175	.979	.734	.588	.470	.367	.294	.184	.092	.046
\$12.00	3.000	1.500	1.200	1.000	.750	.600	.480	.375	.300	.188	.094	.047
\$12.25	3.063	1.531	1.225	1.021	.766	.613	.490	.383	.306	.191	.096	.048
\$12.50	3.125	1.563	1.250	1.042	.781	.625	.500	.391	.313	.195	.098	.049
\$12.75	3.188	1.594	1.275	1.063	.797	.638	.510	.398	.319	.199	.100	.050
\$13.00	3.250	1.625	1.300	1.083	.813	.650	.520	.406	.325	.203	.102	.051
\$13.25	3.313	1.656	1.325	1.104	.828	.663	.530	.414	.331	.207	.104	.052
\$13.50	3.375	1.688	1.350	1.125	.844	.675	.540	.422	.338	.211	.105	.053
\$13.75	3.438	1.719	1.375	1.146	.859	.688	.550	.430	.344	.215	.107	.054
\$14.00	3.500	1.750	1.400	1.167	.875	.700	.560	.438	.350	.219	.109	.055
\$14.25	3.563	1.781	1.425	1.188	.891	.713	.570	.445	.356	.223	.111	.056
\$14.50	3.625	1.813	1.450	1.208	.906	.725	.580	.453	.363	.227	.113	.057
\$14.75	3.688	1.844	1.475	1.229	.922	.738	.590	.461	.369	.230	.115	.058
\$15.00	3.750	1.875	1.500	1.250	.938	.750	.600	.469	.375	.234	.117	.059
\$15.25	3.813	1.906	1.525	1.271	.953	.763	.610	.477	.381	.238	.119	.060
\$15.50	3.875	1.938	1.550	1.292	.969	.775	.620	.484	.388	.242	.121	.061
\$15.75	3.938	1.969	1.575	1.313	.984	.788	.630	.492	.394	.246	.123	.062
\$16.00	4.000	2.000	1.600	1.333	1.000	.800	.640	.500	.400	.250	.125	.063
\$16.25	4.063	2.031	1.625	1.354	1.016	.813	.650	.508	.406	.254	.127	.063
\$16.50	4.125	2.063	1.650	1.375	1.031	.825	.660	.516	.413	.258	.129	.064
\$16.75	4.188	2.094	1.675	1.396	1.047	.838	.670	.523	.419	.262	.131	.065