

# CONVERSION TABLES

*Dilution Ratio    Volume Equivalent    Metric Volume*

Dilution Ratio	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 $\frac{1}{2}$
1 to 60	.2
1 to 64	.2
1 to 100	.1
1 to 128	.1
1 to 256	. $\frac{1}{2}$

## To Determine Cost to Use:

Divide dilution into cost per gallon.

### Examples:

- 1:256 dilution selling at \$12.30 per gallon  
 $\$12.30/256=.048$  or 4.8¢ per gallon
- 1:10 dilution selling at \$4.00 per gallon  
 $\$4.00/10=.36$  or 36¢ per dilute gallon

## Dilution Ratio:

Divide ounces into gallon into 128.

### Examples:

1 $\frac{1}{2}$  oz. per gallon dilution

$$128/1.5=85$$

Answer: 1:85 dilution ratio

### Note:

It is necessary to first convert dilution to ounces for *one gallon*.

### Example:

Dilution given is 10 ounces per 5 gallons. Divide 10 by 5 (10/5=2).

Answer: two ounces per gallon. Now divide the ounces per gallon into 128 (128/2=64). Answer: Use dilution is 1:64.

## U.S. Volume Equivalents

### One Gallon=

- 4 quarts
- 8 pints
- 16 cups
- 128 ounces

### One Cup=

- 8 ounces

### One Quart=

- 2 pints
- 4 cups
- 32 ounces

### One Ounce=

- 2 tablespoons
- 6 teaspoons

### One Pint=

- 2 cups
- 16 ounces

### One Tablespoon=

- 3 teaspoons

## Ounces Per Gallon:

Divide dilution ratio into 128.

### Example:

1:85 dilution

$$128/85=1.5$$

Answer: 1.5 ounces per gallon

## Parts Per Million (P.P.M.) Of Active Disinfectant In Various Use-Dilution Ratios:

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

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

Dilution rate

### Example:

Given active percentage of 4.5%.

- At 1:256 (1/2 oz. per gallon)  
 $(4.5 \times 10,000)/256=176$  ppm active
- At 1:128 (1 oz. per gallon)  
 $(4.5 \times 10,000)/128=352$  ppm active

## Temperature Conversion

$$^{\circ}\text{F} = 9/5 (^{\circ}\text{C}) + 32$$

$$^{\circ}\text{C} = 5/9 (^{\circ}\text{F}) - 32$$

## Metric Volume Equivalents

3 teaspoons	=	1 tablespoon	=	15 ml
8 teaspoons	=	1/2 cup	=	118 ml
16 tablespoons	=	1 cup	=	237 ml
1 fluid ounce	=	2 tablespoons	=	30 ml
8 fluid ounce	=	1 cup	=	237 ml
16 fluid ounce	=	2 cups or 1 pint	=	473 ml
32 fluid ounce	=	4 cups or 1 quart	=	946 ml
128 fluid ounce	=	1 gallon	=	3.8 liters