

# Pool Chemical Formulas

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**Public Health**  
Prevent. Promote. Protect.

Hendricks County Health Department

Pool Type: \_\_\_\_\_ (ie spa, pool, wading, etc...)  
Gallons: \_\_\_\_\_ Pool Occupancy: \_\_\_\_\_

## **Increase Chlorine**

Calcium Hypochlorite .125 x ppm change x pool volume ÷ 10,000 = pounds  
Sodium Hypochlorite .1016 x ppm change x pool volume ÷ 10,000 = gallons  
Lithium Hypochlorite .250 x ppm change x pool volume ÷ 10,000 = pounds

## **Decrease Chlorine**

Sodium Sulfite .2 x ppm change x pool volume ÷ 10,000 = pounds  
Sodium Thiosulfate (dechlor) .0625 x ppm change x pool volume ÷ 10,000 = pounds

## **Increase pH**

Sodium Carbonate (Soda Ash) .186 x ppm change x pool volume ÷ 10,000 = pounds  
Caustic Soda .094 x ppm change x pool volume ÷ 10,000 = pounds

## **Decrease pH**

Muriatic Acid/Hydrochloric Acid .5 x ppm change x pool volume ÷ 10,000 = gallons  
Sodium Bisulfate .05 x ppm change x pool volume ÷ 10,000 = pounds

## **Increase Total Alkalinity**

Sodium Bicarbonate (Baking Soda) .15 x ppm change x pool volume ÷ 10,000 = pounds

## **Decrease Total Alkalinity**

Muriatic Acid/Hydrochloric Acid .016 x ppm change x pool volume ÷ 10,000 = gallons  
Sodium Bisulfate .16 x ppm change x pool volume ÷ 10,000 = pounds

## **Decrease Stabilizer**

Drain and fill with fresh water

**Basic conversion** \*dry and liquid conversions are not interchangeable\*

1 lb (pound)= 16 Ounces (Dry)

1 gal (gallon, liquid)= 128 Fluid Ounces