

The Real Cost of Trichlor Tabs

In most regions across the U.S., trichlor tablets cost less than liquid chlorine. Let's look at the real cost and performance differences to see if trichlor tablets are really giving us the bang for the buck.



VS.

The true cost of a chlorine sanitizer should be evaluated based on the following:

- Additional chemicals required to adjust pH and alkalinity
- Additional chemicals and services needed to remove sanitizer byproducts

Excess Cyanuric Acid Slows Chlorine Reactivity

- Trichlor is 54% CYA by weight
 - Most experts agree 30-50 ppm CYA is the ideal range for swimming pools
 - Validated research shows that ppm of FAC must be 7.5% of CYA ppm to be effective against bacteria and algae
- Example #1 -CYA 30 ppm x 7.5% = 2.25 ppm FAC
 Example #2 -CYA 60 ppm x 7.5% = 4.5 ppm FAC

The EPA maximum level for FAC in public pools is 4 ppm. At 60 ppm CYA, 4.5 ppm FAC is required for effective sanitization, but exceeds the EPA maximum. Local health codes may vary and operators will have to know the allowable limits of chlorine and CYA levels in differing jurisdictions.

What You Pay for Trichlor is NOT Your Cost

The acidity of trichlor tends to lower pH—and total alkalinity and the 54% of trichlor that is CYA will continuously increase the pool's CYA level. The results are hidden costs associated with adjusting water balance and with dealing with elevated CYA levels. Some of these potential hidden costs include:

- Additional chlorine requirements to maintain FAC based on 7.5% of CYA ppm
- Time and materials (soda ash) to increase pH
- Time and materials (bicarb) to increase alkalinity
- Drain and fill costs (water and sewage) to lower CYA levels

Chlorine Type	Avg Price	FAC Added per 10,000 Gals
12.5% Liquid Pool Chlorine (1 gal)	\$2.50	12.5 ppm
90% Trichlor Tabs 1.172lbs*	\$2.57	12.5 ppm

*1.172lbs of trichlor tablets is required to provide an equivalent free available chlorine contained in 1 gallon of HASA Sani-Chlor®. Per pound cost of trichlor based on national average of \$2.32 per lb. All costs based on national averages and may not reflect regional pricing.



1 Gallon of Sani-Clor has the Same Sanitizing Potential as 1.17lbs of Trichlor



FAC Should be 7.5% of the CYA ppm



Sanitizer Cost Needs to Include Expenses Created by a Sanitizer's Byproducts