

The Dose Library

One calculation behind every dose in the book. Tape-free, and it is the same on every pool.

FREE PRINTABLE
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OUNCES = (GALLONS ÷ 10,000) × PPM CHANGE × FACTOR

One part per million in 10,000 gallons is **1.33 ounces of pure active ingredient**. Every factor below is 1.33 divided by what the product actually contains, so a product this sheet does not list takes ten seconds: read the percentage off the label and divide. Half the dose first, one full turnover, retest, then the rest.

THE FACTORS				ounces per 10,000 gal per ppm	
Cal-hypo 65%	1.33 ÷ 0.65	2.05 oz	Sodium bicarbonate	1.33 × 1.68	2.23 oz
Cal-hypo 73%	1.33 ÷ 0.73	1.82 oz	Calcium chloride 77%	1.33 × 1.11 ÷ 0.77	1.92 oz
Trichlor 90%	1.33 ÷ 0.90	1.48 oz	Calcium chloride 94%	1.33 × 1.11 ÷ 0.94	1.57 oz
Dichlor 56%	1.33 ÷ 0.56	2.38 oz	Stabilizer 100%	1.33 ÷ 1.00	1.33 oz
Dichlor 62%	1.33 ÷ 0.62	2.15 oz	Liquid chlorine 12.5%	by volume	10.2 fl oz
Lithium hypo 35%	1.33 ÷ 0.35	3.80 oz	Liquid chlorine 10%	by volume	12.8 fl oz

Liquid is sold on volume strength, so it is dosed by volume and never by weight. One gallon of 12.5% in 10,000 gallons gives 12.5 ppm, and less than that out of a jug that has stood on the shelf since April.

TO RAISE FREE CHLORINE BY 1 PPM						multiply straight through for a bigger move
PRODUCT	10,000	20,000	30,000	50,000	100,000	250,000
Cal-hypo, 65%	2 oz	4 oz	6 oz	10 oz	1 lb 4 oz	3 lb 3 oz
Cal-hypo, 73%	2 oz	4 oz	5 oz	9 oz	1 lb 2 oz	2 lb 14 oz
Dichlor, 56%	2 oz	5 oz	7 oz	12 oz	1 lb 8 oz	3 lb 11 oz
Trichlor, 90%	1 oz	3 oz	4 oz	7 oz	15 oz	2 lb 5 oz
Lithium hypo, 35%	4 oz	8 oz	11 oz	1 lb 3 oz	2 lb 6 oz	5 lb 15 oz

TO RAISE FREE CHLORINE BY 1 PPM, LIQUID						dosed by volume
PRODUCT	10,000	20,000	30,000	50,000	100,000	250,000
Liquid chlorine, 12.5%	10 fl oz	20 fl oz	31 fl oz	1.6 qt	3.2 qt	2.0 gal
Liquid chlorine, 10%	13 fl oz	26 fl oz	1.2 qt	2 qt	1.0 gal	2.5 gal

TO RAISE TOTAL ALKALINITY BY 10 PPM						sodium bicarbonate
PRODUCT	10,000	20,000	30,000	50,000	100,000	250,000
Sodium bicarbonate	1 lb 6 oz	2 lb 13 oz	4 lb 3 oz	7 lb	13 lb 15 oz	35 lb

TO RAISE CALCIUM HARDNESS BY 50 PPM						calcium chloride 77%
PRODUCT	10,000	20,000	30,000	50,000	100,000	250,000
Calcium chloride 77%	6 lb	12 lb	18 lb	30 lb	60 lb	150 lb

TO RAISE CYANURIC ACID BY 10 PPM						stabilizer, 100%
PRODUCT	10,000	20,000	30,000	50,000	100,000	250,000
Stabilizer	13 oz	1 lb 11 oz	2 lb 8 oz	4 lb 2 oz	8 lb 5 oz	20 lb 12 oz

TO LOWER ALKALINITY BY 10 PPM						muriatic acid, 31.45%
PRODUCT	10,000	20,000	30,000	50,000	100,000	250,000
Muriatic acid 31.45%	26 fl oz	1.6 qt	2.4 qt	1.0 gal	2.0 gal	5.0 gal

The error that costs the most. The commonest dosing mistake in the industry happens in the unit at the end of the formula rather than in the formula itself, and it always runs the same way: an operator computes 17 ounces, walks to the store and comes back with 17 pounds. That is sixteen times the intended dose. **Say the unit out loud as you write the number down.** Chemicals go into water, never water into chemicals, and the goggles and gloves go on before the lid comes off.