

TROY

(Use Troy Test Kit ###)

2000 Gallon Tank

	Number of Drops	% Concentration	Ounces per Gallon	Initial (Gallons)	Addition (Gallons)
Addition Required	9	2.25	2.90	45	35
	10	2.50	3.20	50	30
	11	2.75	3.50	55	25
	12	3.00	3.80	60	20
	13	3.25	4.20	65	15
	14	3.50	4.50	70	10
Normal	15	3.75	4.80	75	5
	16	4.00	5.10	80	None
	17	4.25	5.40	85	None
High	18	4.50	5.80	90	None

1. Fill titration vial to the 10 mL mark with Troy #### working solution.
2. Add 3 drops of **PHENOLPHTHALEIN INDICATOR SOLUTION** to the sample and swirl to mix.
3. Holding the dropper bottle vertically, add **1 N SODIUM HYDROXIDE TITRATION SOLUTION** one drop at a time, shaking or swirling the vial after each addition. Continue until the color of the solution changes from colorless to pink.
4. Note the number of drops.
5. Each drop is **approximately** 0.25 per cent.
6. Example:

Number of drops to titrate the Troy #### sample: 12

$$12 \times 0.25 = 3.0\% \text{ Troy ####}$$

CAUTION: This titration procedure is NOT exact. There is a natural variation in the number of drops obtained for each titration due to human error. When conducting a titration, please allow one (1) drop variation on either side of your target concentration.