

# Directions for testing the Total Alkalinity

1. **Rinse** the cylinder prior to use
2. **Fill the cylinder with 25ml of water** from the PoolComm CAT Controller.
3. **Add 2 drops of R-0007.**
4. Swirl the water until the sample is mixed.
5. **Add 5 drops of R-0008.**
6. Swirl the water until the sample is mixed.
7. **Add R-0009 one drop at a time.** When the color turns **bright pink** (no blue present), STOP. That said, it's always a good idea to add one more drop to make sure the sample doesn't get pinker.
8. **Multiply the number of R-0009 by 10.**
9. The result is the amount of Alkalinity present in the water sample.
10. **Enter the total in the chemical test sheet.**

## Total Alkalinity Goal= 110 ppm

If your test result for Total Alkalinity (TA) is below 110, add sodium bicarbonate to the pool.

If the result is	Then, add:
80 ppm	1 entire red bucket
90 ppm	2/3 red bucket
100 ppm	1/3 red bucket

### What do we add to the pool?

- **Common Names:** Sodium Bicarbonate, Baking Soda
- **Molecular Formula:** (NaHCO<sub>3</sub> or CHNaO<sub>3</sub>)
- **How it Works:** Adding 1 pound of Alkalinity Up for every 10,000 gallons of water will increase the Total Alkalinity by 10 ppm.

**Maricopa County** requires the amount of Total Alkalinity be maintained in the water for public and semi-public pools to be between 60 parts per million (ppm) and 180ppm.

### How to prepare a bucket of sodium bicarbonate:

1. Use the red bucket labeled sodium bicarbonate
2. Use the scoop in the yellow bin and fill the red bucket with the necessary amount of sodium bicarbonate to raise the alkalinity to 110 (either 1/3, 2/3, or a whole bucket)

### How to add sodium bicarbonate to the pool:

1. When adding sodium bicarbonate to the pool, gently sprinkle the product in the pool while keeping the bucket close to the pool water so that the product does not become airborne

### When to add sodium bicarbonate:

1. Only add sodium bicarbonate when there are no students in the pool
2. Ideally, sodium bicarbonate should be added prior to the start of a shift