CHLORIDE/SODIUM CHLORIDE

K-0062 high pH waters

1. **Fill the reaction vial with the water sample to the 25 ml mark.**
2. **If the water sample contains a reducer (sulfite) in more than 30ppm, add 5 drops of Hydrogen peroxide solution (R-3040) and mix. Otherwise, skip this step.**
3. **Add 3 drops of phenolphthalein indicator solution (R1070). If the water turns red, add one drop at the time of sulfuric acid (R-9011 or R-9013) until the water turns colorless.**
4. **Add 5 drops of Potassium chromate indicator (R-1080) and mix.**
5. **Add Chloride titrating solution (R-9123), drop by drop, shaking the mixing vial between each drop, counting the drops, until a faint brick red color appears throughout the entire sample.**

Cl ppm = No. of drops x 10 (to convert to Sodium Chloride, multiply Cl by 1.65)

If you take 10 ml of sample, multiply the number of drops by 25
If you take 5 ml of sample, multiply the number of drops by 50
If you take 2.5 ml of sample, multiply the number of drops by 100
If you take 0.5 ml of sample, multiply the number of drops by 500

R-9123/2oz	Chloride titrating solution, NPB	R-1070/2oz	Phenolphthalein indicator solution
R-3040/2oz	Hydrogen peroxide solution w/nasal plug	R-9011/20z	Sulfuric acid 0.12 N
R-1080/2oz	Potassium chromate indicator solution	R-9013/2oz	Sulfuric acid 0.6 N
P-1045	Graduated reaction vial w/cap, 25 ml		
P-1075	Plastic scoop, 0.2g capacity		
P-1010/1	1 cc plastic syringe		
P-1111	Test kit box with foam insert		