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### **AQUAKLEAN RP 700 CONTROL TITRATION - Drop Method**

#### **Reagents and Equipment:**

- Hach Test Kit (avail from NuGenTec) model number: TK- AL-TA.
- 150 or 200 or 250 ml Beaker or Erlenmeyer flask with a 100 ml marking

#### Procedure for 1% and 2% Tanks of RP700:

- 1. Fill the small bottle to the 20ml mark with RP700 solution from tank to be tested.
- 2. Add one packet of Bromocresol Green/Methyl Red Powder.
- 3. Titrate with 0.5N "Acid" solution to an endpoint "green/blue to purple" color change.
- 4. Record number of DROPS of titrant (0.5N acid) testing solution used as "T<sub>1</sub>".
- 5. Concentration of AquaKlean RP 700, in percent by volume, is calculated by

## $T_1 \times 0.33 = \%$ by volume of AquaKlean RP 700

Calculation Example: For T = 6, 6 x 0.33 = 2 % by volume of AquaKlean RP 700

Drops of 0.5N Titrant Used:	% Concentration of RP 700 Tank
1	0.33
2	0.66
3	1.0
4	1.33
5	1.66
6	2.0
7	2.33
8	2.66
9	3.0

#### Procedure for Tanks with <1% of RP700:

- 6. Fill the Beaker or Erlenmeyer flask to the 100ml mark with RP700 solution from tank to be tested.
- 7. Add one packet of Bromocresol Green/Methyl Red Powder.
- 8. Titrate with 0.5N "Acid" solution to an endpoint "green/blue to purple" color change.
- 9. Record number of DROPS of titrant (0.5N acid) testing solution used as "T2".
- 10. Concentration of AquaKlean RP 700, in percent by volume, is calculated by

# $T_2 \times 0.041 = \%$ by volume of AquaKlean RP 700

Calculation Example: For T = 6, 6 x 0.041 = 0.25 % by volume of AquaKlean RP 700