#8557 Hydrate "OH"Test Kit (1drop = 10,20,25,50 or 100 ppm/25ml)

- 1. Fill the mixing bottle with the water sample to be tested to the top of the etched mark (25ml); the bottom of the curved surface or meniscus should be exactly level with the mark.
- 2. Add 10 to 12 drops of **Barium Chloride Solution**, swirl the mixing bottle and let sit for 30 seconds or more.
- 3. Add 8 drops of **Phenolphthalein Indicator Solution** and mix.

a. If the water does <u>not</u> change to a *Pink* or *Red* color, there is no Phenolphthalein Alkalinity present and "P" reading is reported as <u>zero</u> (0).

b. If the water changes to *Pink* or *Red* color, Hydrate Alkalinity is present and the test should be continued (No.4 below).

4. Add AK-2 Sulfuric Acid Titrating Solution, dropwise, shaking the mixing bottle between each drop, counting the drops, until the water turns colorless. This is the endpoint. (Care should be taken to hold the OptiDrop dispenser in a vertical position for accurate results.)

MCI OptiDrop Test Procedure

 The "OH" reading of the water, in ppm (mg/L) is equal to the number of drops of AK-2 Sulfuric Acid Titrating Solution used times the factor shown on the bottle of titrant. (See examples outlined.)

Examples:				
8 drops x	10 =	80	ppm (mg/L) "OH" Alkalinity as CaCO3.	
8 drops x	20 =	160	ppm (mg/L) "OH" Alkalinity as CaCO3.	
8 drops x	25 =	200	ppm (mg/L) "OH" Alkalinity as CaCO3.	
8 drops x	50 =	400	ppm (mg/L) "OH" Alkalinity as CaCO3.	
8 drops x	100 =	800	ppm (mg/L) "OH" Alkalinity as CaCO3.	





Barium & Phenolphthalein added to sample

Titration Endpoint to Clear

MCI-A Leading Force in Water Treatment

#8557 Hydrate "OH"Test Kit (1drop = 10,20,25,50 or 100 ppm/25ml)	MCI OptiDrop Test Procedure
(1drop = 10,20,25,50 or 100 ppm/25ml) #8557 Replacement Reagents & Equipment for "OH" Alkalinity Test Kit 1- #R8471Q/10-20-25-50 or100 AK-2 Sulfuric Acid Titrating Solution 1-#101-A - Barium Chloride Solution 1-#168-A - Phenolphthalein Indicator Solution 1-#401- Scribed Test Bottle,25ml Plastic w/cap 1-#8404- Plastic Test Kit Box w/Foam Insert	

MCI-A Leading Force in Water Treatment