- 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 15 drops of **Hardness Indicator Buffer Solution** and swirl the vial to mix.
- If the water turns *BLUE*, <u>no</u> hardness is present and the answer is reported as <u>zero</u>. If the water turns *Red* or *Purple*, hardness is present and the test should be continued to Step 4.
- Add HT-2 Hardness Titrating Solution, dropwise, while the drops are counted, until the water changes to a *BLUE* color. This is the endpoint. (Care should be taken to hold the *OptiDrop* dispenser bottle in a vertical position for accurate results.)
- The total hardness of the water, in ppm or (mg/L), is equal to the number of drops of HT-2 Hardness Titrating Solution used times the factor shown on the bottle of titrant. (See examples.)

#8417 Total Hardness Test Kit (1drop = 1,2,5,10,20 or 50ppm/25ml)



Indicator Added Hardness Present

Blue Endpoint

EXAMPLES:											
										(mg/l	
										(mg/l	
										(mg/l	
	13	drop)S	X	10	=	130	ppm	or	(mg/l	_).
										(mg/l	
	13	drop	os	X	50	=	650	ppm	or	(mg/	_).

MCI OptiDrop Test Procedure

Product Control Notes:

Replacement	Reagents &	& Eq	uipment for	
	rdness Tes			

- 1- #R8411-Q/1-2-5-10-20 or 50ppm
- HT-2 Hardness Titrating Solution
- 1- #143-A Hardness Indicator Buffer Solution
- 1- #401- Scribed Test Bottle, 25ml Plastic
- 1- #8404- Plastic Test Kit Box w/Foam Insert

#8417 Total Hardness Test Kit (1drop = 1,2,5,10,20 or 50ppm/25ml)

MCI OptiDrop Test Procedure