8.0

7.0



Your Disinfection Team: Chlorine & pH

Protection Against Recreational Water Illnesses (RWIs)

Protecting swimmers and their families from RWIs is the reason that pool staff regularly check both chlorine and pH levels. Chlorine and pH, your disinfection team, are the first defense against germs that can make swimmers sick. <u>What does chlorine do?</u>	Water Quality	рΗ
	Poor Chlorine Disinfection Eye Irritation Skin Irritation	> 8.0
Chlorine kills germs in poolsbut it takes time to work. Therefore, it's important to make sure chlorine levels are always at the levels recommended by the health department (usually between 1.0 - 3.0 ppm)		7.8
Why does chlorine need to be tested regularly?	Most Ideal for Eye Comfort and Disinfection	7.6
pool water. Some examples are sunlight, dirt, debris, skin, and fecal matter from swimmer's bodies. That's why chlorine levels must be routinely measured. However, the time it takes		7.2
for chlorine to work is also affected by the other member of the disinfection team, pH. <u>Why is pH important?</u>	Eye Irritation Skin Irritation Pipe Corrosion	< 7.(
Two reasons. First, the germ-killing power of chlorine varies with pH level. As pH goes up, the ability of chlorine to kill germs goes down. Second, a swimmer's body has a pH between 7.2 and 7.8, so if the pool water isn't kept in this range then swimmers will start to feel irritation of their eyes and skin. Keeping the pH in this range will balance chlorine's germ-killing		

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What else can be done to promote Healthy Swimming?

power while minimizing skin and eye irritation.

The best way to kill germs is by routinely measuring and adjusting both chlorine and pH levels. Since a few germs can survive for long periods in even the bestmaintained pools, it is also important that swimmers become aware of Healthy Swimming behaviors (don't swim when ill with diarrhea, don't swallow pool water, take frequent bathroom breaks, and practice good hygiene). Combining Healthy Swimming behaviors with good chlorine and pH control will reduce the spread of RWIs.

For more information about pool disinfection, go to http://www.cdc.gov/healthyswimming/fecal_response.htm

Healthy Swimming