



State Standards for Chemical Levels in Swimming Pools and Spas

	Minimum	Ideal	Maximum
Free chlorine residual 1	1.0	2.0 - 3.0	10.0
Free chlorine residual with stabilizer	1.5	2.5 - 3.5	10.0
Combined chlorine	0	0	0.5
Bromine	4.5	4.5 - 6.5	11.0
pH	7.2	7.4 - 7.6	8.0
Cyanuric acid	20	25-35	100
Total alkalinity	80	100 - 150	180
Calcium Hardness	150	200 - 300	500
Copper	0	0	0.3
Iron	0	0	0.2
Total dissolved solids:			
Swimming pools	300	-	2,000 over start
Spa pools	300	-	1,500 over start

All readings are in parts per million.

Note: The legal minimum free chlorine residual in public pools in California is 1.0 ppm for pools not using stabilizer (cyanuric acid) and 1.5 ppm for pools using stabilizer.