



# Pool Guidelines (Minnesota)

Disinfectants Residual Types of Disinfectants	Swimming Pool		Whirl Pool	
	Range	Ideal	Range	Ideal
Free Available Chlorine	0.5 – 5.0 ppm	2.0 – 5.0 ppm	2.0 – 5.0 ppm	3.0 – 5.0 ppm
Combined Available Chlorine	No more than 0.5 ppm permitted		No more than 0.5 ppm permitted	
Stabilized Chlorine	1.0 – 5.0 ppm	3.0 – 5.0 ppm	2.0 – 5.0 ppm	3.0 – 5.0 ppm
Total Bromine	1.0 – 10.0 ppm	4.0 – 8.0 ppm	4.0 – 10.0 ppm	6.0 – 8.0 ppm
Calcium Hardness	150 – 1000 ppm	200 – 400 ppm	150 – 1000 ppm	200 – 400 ppm
pH	7.2 – 8.0	7.4 – 7.6	7.2 – 8.0	7.4 – 7.6
Alkalinity	60 – 150 ppm	80 – 120 ppm	60 – 150 ppm	80 – 120 ppm
Cyanuric Acid	35 ppm max.	20 – 30	35 ppm max.	20 – 30 ppm
Temperature		78° - 86°	104° max.	

**Clarity:** Bottom drain must be visible at all times

**Test Kits** (store test reagents in a cool, dry place away from light)

- DPD type test kit for free and total disinfectant residuals  
Must be able to read up to 10.0 ppm with 0.2 ppm accuracy  
Orthotolidine test kits are not acceptable
- pH test kit
- Alkalinity test kit
- Cyanuric Acid test kit (if using stabilized chlorine)

**Safety Equipment** (one of each unit per 2,000 square feet of pool surface area)

- Life Ring – with 3/16" rope attached, 1½ times width of pool, but not more than 60 feet
- Shepherd's Hook – with min. of 12 ft straight pole bolted to hook

Mount life saving equipment on conspicuous, readily accessible locations around the pool. Pools providing lifeguard service must have a First Aid Kit and Spine Board.

**Controlled Access to Pool** (fencing)

- Min. of 4 feet, non-climbable, with self-closing, latching gates
- Minimum of 5 feet high on new installations

**Depth Markings**

- Numerals, 4 inches high in contrasting color at 25' intervals and at changes in slope. Letters FT and IN follow numbers. Some localities require depth markings in water line also.
- "No Diving" on pool deck on all sides of the pool where diving is not permitted and spaced not more than 25 feet apart. Minimum 4 inches high in contrasting color.

**Slope Changes**

- Indicated by a band of contrasting color on the sides and bottom of the pool
- Minimum width 6 inches in a contrasting color

**Stair Markings**

- The leading edge of stair treads must be marked by a strip of dark contrasting color, ½ - 2 inches in width

**Daily Records** must include:

- Free Available Chlorine, Total Available Chlorine, pH, Total Alkalinity, Temperature, and Cyanuric Acid test results
- Volume or amounts of fresh water or chemical additions, flow rate, filter pressures, cleaning and maintenance of pool equipment, and any malfunctioning or problems with equipment
- Physical check of main drain and suction covers

## Required Warning Signs

- **"Pool Rules"**  
Must be prominently posted
- **"No Diving"**  
Where needed
- **"Pool Capacity"**  
Must be prominently posted
- **"Warning No Lifeguard on Duty"**  
(4 inch letters)
- **"Children shall not use pool without an adult in attendance"**  
(1 inch letters) Must be displayed at pools without lifeguard service
- **"For Emergency Use Only"**  
Must be posted above safety equip.
- **Emergency Instructions: 911**  
Or other instructions for emergency calls must be prominently posted
- **"Location of the nearest phone"**
- **"Spa Rules"** and **"Spa Capacity"**  
Where applicable

## Pool Operators

- Every swimming pool shall be operated under the direct supervision of a trained Nation Certified Pool Operator

## Chemicals

- Store covered in a cool, dry place
- Segregate acids, bases and oxidizers

## Cleanliness

- Pools and decks must be maintained in a clean, sanitary condition
- Daily maintenance is required