



Damages caused by the pool chemicals

1/ Calcium (Hardness)

- Level too low

Long-term serious damage especially:

- **Disappearance of the grout between the tiles**
- **Damage to tiles and pool cladding**
- **Vinyl liners**
- **Damage to concrete deck around the pool**
- **Rust of the metal structure**

- Level too high

- **Irritation to eyes and skin**
- **Scaling on pump, pipe and all equipment (that does not come off of the walls, and equipment easily)**
- **Clogged filters that reduced circulation through piping**
- **White Water cloudiness which will be difficult to recover**



Damages caused by the pool chemicals

2/ Alkalinity

- Level too low
 - Corrosion
 - An inadequate level of alkalinity will cause the instability of the PH level
- Level too high
 - An inadequate level of alkalinity will cause the instability of the PH level



Damages caused by the pool chemicals

3/ Cyanuric Acid (Stabilizer)

- Level too low
 - Chlorine disappears very quickly because of the UV, which seriously shortens the sanitizer effect
- Level too high
 - Blocks the effectiveness of chlorine
 - The water will gradually no longer be sanitized until it is no longer sanitized at all
 - Above a level of 100 ppm, it is dangerous for healthWater can turn green
 - The water will be infested with algae of different colors
 - The pool should be partially or completely emptied and refilled, resulting in a significant cost to rebalance the water pool chemicals



Damages caused by the pool chemicals

4/ PH level

- Level too low

- burning eyes and nose;
- dry and itchy skin and scalp
- eroding the siding and pool grout
- corroding of the metal pool accessories
- staining resulting from metal corrosion

- Level too high

- burning eyes and nose;
- dry, itchy skin and scalp.
- clogging of filter elements causing poor filtration
- drop in disinfection potential of chlorine resulting in algae growth, bacterias and viruses proliferation
- scaling or calcium buildup on pool surfaces, waterline and accessories



Damages caused by the pool chemicals

5/ Chlorine

- Level too low

- Proliferation of bacteria and microbes that might cause infection, disease and viruses
- Algae growth
- PH unbalanced

- Level too high

- Eyes and nose irritation
- Skin irritation & redness
- Lungs irritation (trigger person's asthma)
- Damage the grout in between the tiles
- The tiles get loose
- Pool pump damages
- Cause of equipment breakdowns
- Corrosion on metal surfaces, pool walls & pool floors
- PH unbalanced