

Compound	Oxidation Potential	Relative Power Of Chlorine
Fluorine	3.06	2.25
Hydroxyl Radicals*	2.80	2.05
Ozone	2.07	1.52
Hydrogen Peroxide	1.77	1.30
Permanganate	1.67	1.23
Hypochlorous Acid	1.49	1.10
Chlorine	1.36	1.00

\*This ion is formed when ozone decomposes

#### EPA Quotes about Ozone:

- Ozone is more effective than chlorine in destroying viruses and bacteria.
- The ozonation process utilizes a short contact time (Approximately 10 to 30 minutes).
- There are no harmful residuals that need to be removed after ozonation because ozone decomposes rapidly.
- After ozonation, there is no re-growth of microorganisms, except for those protected by the particulates in the wastewater stream.
- Ozone is generated onsite, and thus, there are fewer safety problems associated with shipping and handling.
- Ozonation elevates the dissolved oxygen (DO) concentration of the effluent. The increase in DO can eliminate the need for re-aeration and also raise the level of DO in the receiving stream.