



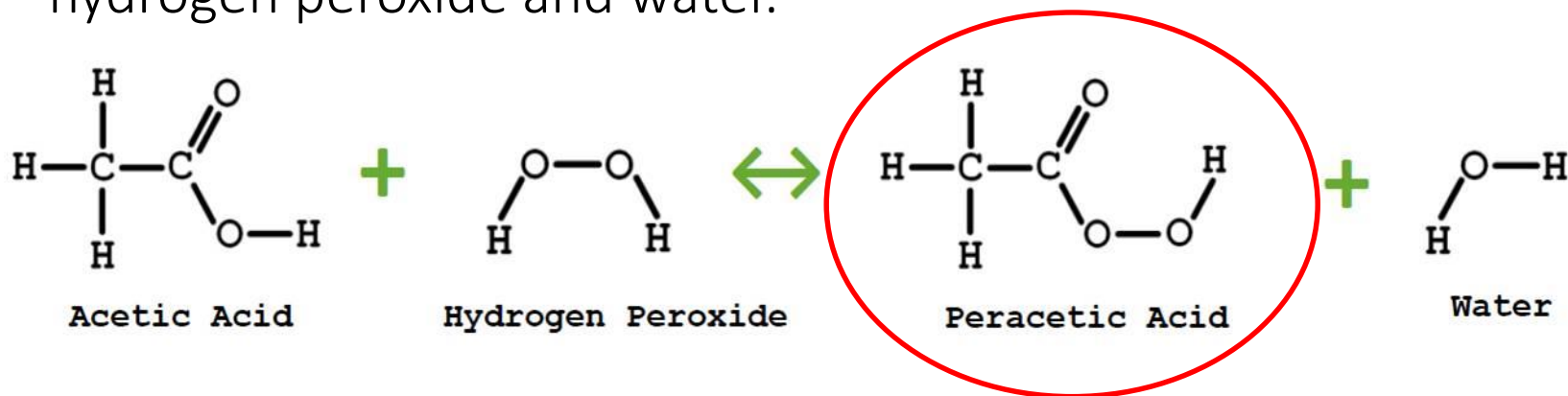
# PeroxyChem

Wastewater Disinfection with  
Peracetic Acid (PAA)



# What is PAA?

Is produced from the reaction between acetic acid, hydrogen peroxide and water.



$\text{H}_2\text{O}$   
 $\text{O}_2$   $\text{CH}_3\text{CO}_2\text{H}$

Breaks down in the environment to water, acetic acid and oxygen



# Drivers for Conversion

Cl<sub>2</sub> / NaOCl  
DBPs

PAA does not produce disinfection byproducts

Cl<sub>2</sub> / NaOCl  
Toxicity

PAA does not require quenching

Cl<sub>2</sub>  
Safety

PAA does not require a Risk Management Plan

UV  
Performance

PAA is effective in low UVT and peak flows

UV  
Capital Cost

PAA requires very low to no capital cost to implement



# Largest PAA Application for WWTP Memphis, TN



M.C. Stiles Plant

M.C. Stiles and T.E. Maxon WWTPS:  
30 million lbs of PAA / yr



PeroxyChem Wolf River  
production Plant

PeroxyChem PAA  
Dosing System

