

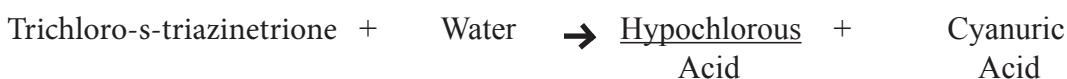
Chlorine and its Compounds as they React with Water

onBalance - Que Hales, Doug Latta and Kim Skinner

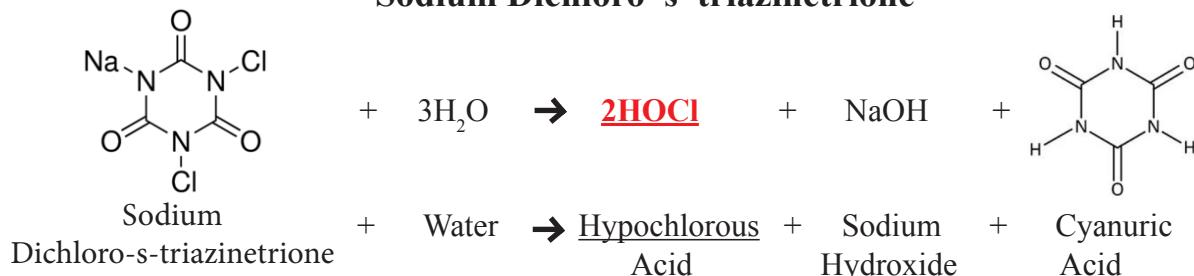
Chlorine



Trichloro-s-triazinetrione



Sodium Dichloro-s-triazinetrione



Sodium Hypochlorite



Calcium Hypochlorite



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HOCl OCl⁻ Relationship

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Chlorine Demand (less than amount of HOCl)



pH = 7.5 (50:50 HOCl: OCl⁻)

Total Chlorine = 3

HOCl = 1.5

OCl⁻ = 1.5

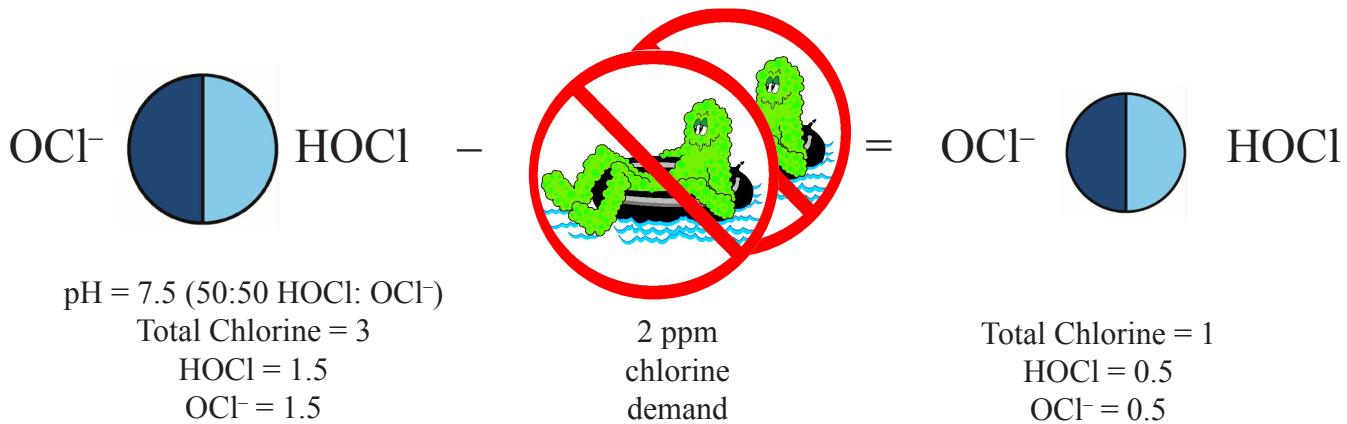
1 ppm chlorine demand

Total Chlorine = 2

HOCl = 1

OCl⁻ = 1

Chlorine Demand (greater than amount of HOCl)



pH = 7.5 (50:50 HOCl: OCl⁻)

Total Chlorine = 3

HOCl = 1.5

OCl⁻ = 1.5

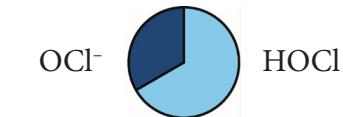
2 ppm chlorine demand

Total Chlorine = 1

HOCl = 0.5

OCl⁻ = 0.5

HOCl as a percent of Total Chlorine

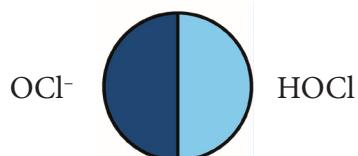


pH = 7.2 (66:34 HOCl: OCl⁻)

Total Chlorine = 3

HOCl = 2

OCl⁻ = 1

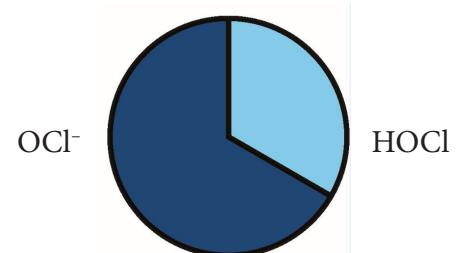


pH = 7.5 (50:50 HOCl: OCl⁻)

Total Chlorine = 4

HOCl = 2

OCl⁻ = 2



pH = 7.8 (34:66 HOCl: OCl⁻)

Total Chlorine = 6

HOCl = 2

OCl⁻ = 4