

## Model 2 – Ternary Acids (Oxyacids)

Acid	Name of Acid in Aqueous Solution	Cation (+)	Polyatomic Anion (-)	Polyatomic Anion Name
$\text{HClO}_3$	Chloric acid	$\text{H}_3\text{O}^+$	$\text{ClO}_3^-$	Chlorate
$\text{H}_2\text{SO}_3$	Sulfurous acid	$2\text{H}_3\text{O}^+$	$\text{SO}_3^{2-}$	Sulfite
$\text{H}_2\text{SO}_4$	Sulfuric acid	$2\text{H}_3\text{O}^+$	$\text{SO}_4^{2-}$	Sulfate
$\text{H}_3\text{PO}_3$	Phosphorous acid	$\text{H}_3\text{O}^+$	$\text{PO}_3^{3-}$	Phosphite
$\text{H}_3\text{PO}_4$	Phosphoric acid	$3\text{H}_3\text{O}^+$	$\text{PO}_4^{3-}$	Phosphate
$\text{HNO}_3$	Nitric acid	$\text{H}_3\text{O}^+$	$\text{NO}_3^{-1}$	Nitrate
$\text{HNO}_2$	Nitrous acid	$\text{H}_3\text{O}^+$	$\text{NO}_2^{-1}$	Nitrite
$\text{H}_2\text{CO}_3$	Carbonic acid	$2\text{H}_3\text{O}^+$	$\text{CO}_3^{2-}$	Carbonate

6. Look at the formulas of the ternary acids in Model 2.

a. How are ternary acids different from binary acids in their structure?

While binary acids consist of two different elements, ternary acids have three different types of elements

b. What number do you think the prefix "ter-" refers to?

Three

7. When ternary acids are mixed with water, ions will form. Fill in the table above with the

ions that form. For example, when  $\text{HClO}_3$  is mixed with water, the  $\text{H}_3\text{O}^+$  and  $\text{ClO}_3^-$  ions form. Write the formulas of the ions that form when each of the acids in Model 2 is mixed with water.

Phosphorous acid:  $\text{H}_3\text{PO}_3$  + water yields  $\text{H}_3\text{O}^+$  and  $\text{PO}_3^{3-}$

Phosphoric acid:  $\text{H}_3\text{PO}_4$  + water yields  $3\text{H}_3\text{O}^+$  and  $\text{PO}_4^{3-}$

Nitrous acid:  $\text{HNO}_2$  + water yields  $\text{H}_3\text{O}^+$  and  $\text{NO}_2^{-1}$

Carbonic acid:  $\text{H}_2\text{CO}_3$  + water yields  $2\text{H}_3\text{O}^+$  and  $\text{CO}_3^{2-}$

Sulfurous acid:  $\text{H}_2\text{SO}_3$  + water yields  $2\text{H}_3\text{O}^+$  and  $\text{SO}_3^{2-}$

Sulfuric acid:  $\text{H}_2\text{SO}_4$  + water yields  $2\text{H}_3\text{O}^+$  and  $\text{SO}_4^{2-}$

Nitric acid:  $\text{HNO}_3$  + water yields  $\text{H}_3\text{O}^+$  and  $\text{NO}_3^{-1}$

Chloric acid:  $\text{HClO}_3$  + water yields  $\text{H}_3\text{O}^+$  and  $\text{ClO}_3^-$

Phosphoric acid:  $\text{H}_3\text{PO}_4$  + water yields  $3\text{H}_3\text{O}^+$  and  $\text{PO}_4^{3-}$

Phosphorous acid:  $\text{H}_3\text{PO}_3$  + water yields  $\text{H}_3\text{O}^+$  and  $\text{PO}_3^{3-}$

Nitrous acid:  $\text{HNO}_2$  + water yields  $\text{H}_3\text{O}^+$  and  $\text{NO}_2^{-1}$

Carbonic acid:  $\text{H}_2\text{CO}_3$  + water yields  $2\text{H}_3\text{O}^+$  and  $\text{CO}_3^{2-}$

Sulfurous acid:  $\text{H}_2\text{SO}_3$  + water yields  $2\text{H}_3\text{O}^+$  and  $\text{SO}_3^{2-}$

Sulfuric acid:  $\text{H}_2\text{SO}_4$  + water yields  $2\text{H}_3\text{O}^+$  and  $\text{SO}_4^{2-}$

Nitric acid:  $\text{HNO}_3$  + water yields  $\text{H}_3\text{O}^+$  and  $\text{NO}_3^{-1}$

Chloric acid:  $\text{HClO}_3$  + water yields  $\text{H}_3\text{O}^+$  and  $\text{ClO}_3^-$

# Naming Acids Pogil Answer Key

**Raffaela Di Napoli**



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the basic substructuring idea is to consider a substructure a part of the model separately and eliminate all but the degrees of

freedom needed to connect this part to the rest of the model so that the substructure appears in the model as a substructure a collection of finite elements whose response is defined by the stiffness and mass o

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substructures are collections of elements from which the internal degrees of freedom have been eliminated retained nodes and degrees of freedom are those that are recognized externally at the usage level when the substructure is used in an analysis and they are defined during generation of the substructure

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limitations of structural elements membrane elements cannot be used to overlay a substructure that consists of second order three dimensional brick elements of type c3d20 r h if the substructure will be used as a slave surface normally abaqus standard automatically converts c3d20 r h brick elements to elements with midface nodes c3d27 r h because this

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in abaqus standard the response within a substructure once it has been reduced to a substructure is considered to be a linear perturbation about the state of the substructure at the time it is made into a substructure

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set this parameter equal to yes default if the substructure eigenproblem needs to be solved during substructure generation in abaqus substructure eigenvectors can be used to define substructure modal damping for a given substructure abaqus standard will evaluate the stiffness associated with frequency dependent springs and dashpots at

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the purpose of this example is to provide basic demonstration and verification of the substructuring capabilities in abaqus problem description the example is a frame consisting of two columns connected by a beam figure 1 16 1 1 the columns and the beam are each modeled with 10 elements of type b21 once a substructure has been