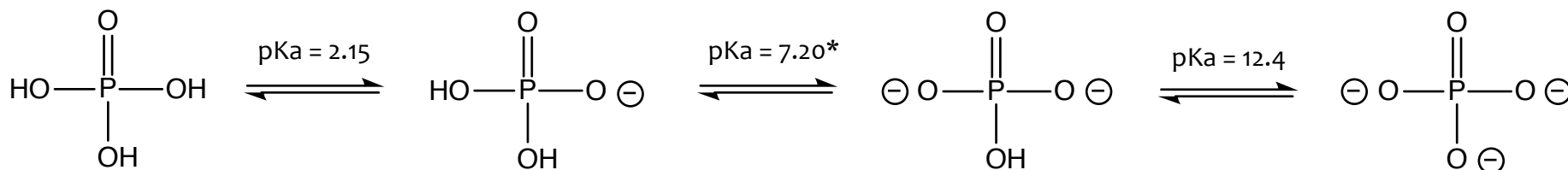


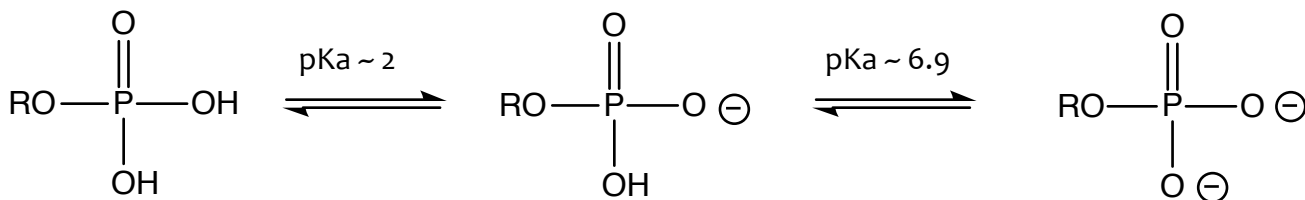
A Natural History of Phosphate Species

Chem 310
Enzyme Mechanisms
Prof. B. Hanson

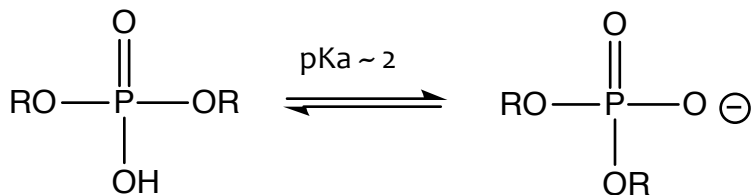
Phosphoric Acid



Phosphate Monoesters



Phosphate Diesters



* 7.20 is the value in pure water. Under physiological conditions, the pKa is 6.86.
See Jungas, *Analytical Biochemistry* vol 349 pgs 1-15 (2005).