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An acid dissociation constant, K_a , (also known as acidity constant, or acid-ionization constant) is a quantitative measure of the strength of an acid in solution. It is the equilibrium constant for a chemical reaction known as dissociation in the context of acid–base reactions. $HA \rightleftharpoons A^- + H^+$. The chemical species HA, A^- , and H^+ are said to be in equilibrium when their concentrations ... $K_a = \frac{[A^-][H^+]}{[HA]}$. The alkali metals are a group (column) in the periodic table consisting of the chemical elements lithium (Li), sodium (Na), potassium (K), rubidium (Rb), caesium (Cs), and francium (Fr). This group lies in the s-block of the periodic table of elements as all alkali metals have their outermost electron in an s-orbital: this shared electron configuration results in their having very similar ... - Solution Manual Inorganic Chemistry Huheey