Figure 1. Interrelations Between Basicities of Bases Belonging to Different Families in Different Media.

The absolute $pK_a$ values in different media are not directly comparable, so PhTMG has been used as an arbitrary reference compound for placement of the scales on the figure.

The $pK_a$ values for the gas phase (GP) are found according to the following equation $pK_a(GP) = GB \cdot 2.303 / RT = GB / 1.364$. The gas-phase basicities (in kcal/mol) are given in brackets.

The $pK_a$ arrow is divided into $pK_a$ units but as the $pK_a$ values in different media cannot be compared directly, the numbers were not added to the division markers.