

Table II-1

Effect of Solvent on the Dissociation Constant
of Acetic Acid at 25°C

Solvent	Dielectric Constant	Dissociation Constant
Water	78.5	2×10^{-5}
Methyl Alcohol	32.6	5×10^{-10}
Ethyl Alcohol	24.3	5×10^{-11}

Table II-2

Ion Product of Water in Dioxane-Water Mixtures at 25°C

Weight Percentage of Dioxane	Dielectric Constant	Ion Product Constant
0	78.5	1.01×10^{-14}
20	60.8	2.40×10^{-15}
45	38.5	1.81×10^{-16}
70	17.7	1.40×10^{-18}