CHEM1612 2012-N-6 November 2012

• Phenylketonuria is an inherited disorder in which phenylacetic acid, $C_6H_5CH_2COOH_5$ (simplified here to HPAc) accumulates in the blood. If untreated, it can cause mental retardation and death. A study of the acid shows that the pH of a 0.12 M HPAc solution is 2.60. What is the p $K_a$ of phenylacetic acid?	
Answer:	