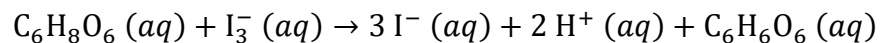


Name: _____

In an experiment to determine the amount of vitamin C ($C_6H_8O_6$) in a commercial tablet, 0.08 g of the tablet powder was reacted with I_3^- . The following reaction occurs:



If 6.0×10^{-4} mol of I^- was obtained in the product, what is the mass percent of vitamin C in the tablet? You may assume 100% yield for the reaction above.

(The molecular mass of $C_6H_8O_6$ is 176.13 g/mol.)