

Rxn: Reaction balancing: Solution I

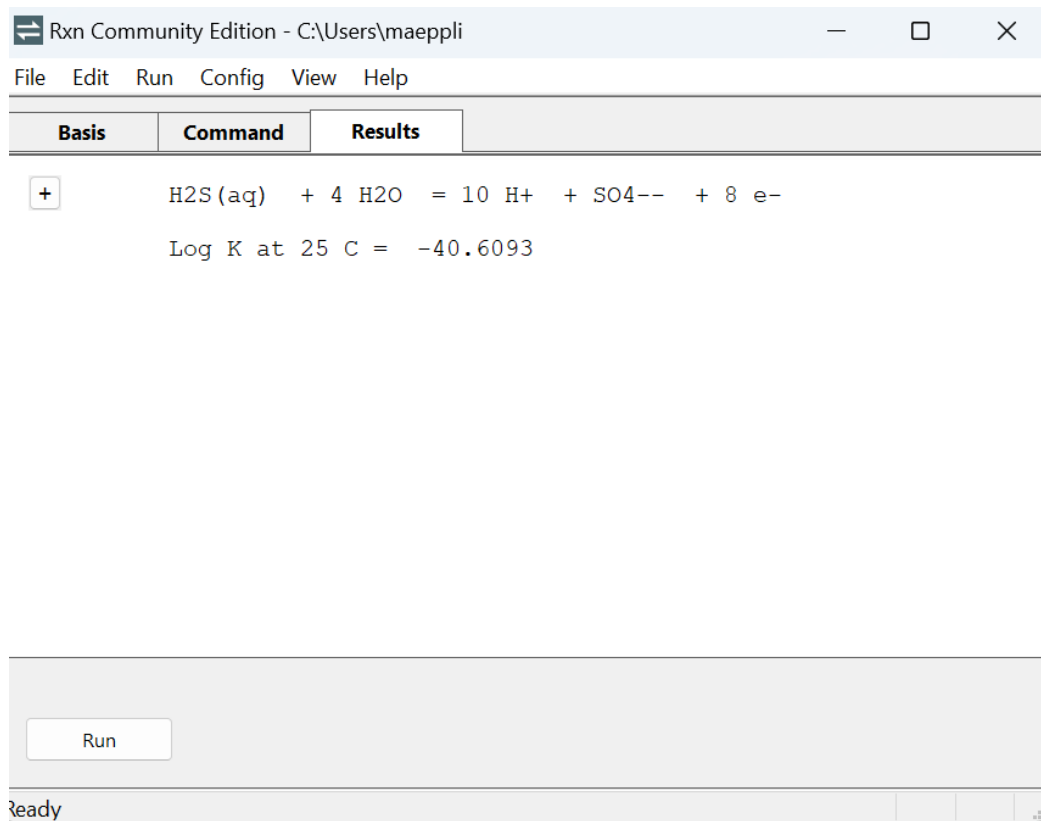
The screenshot shows the 'Rxn Community Edition' application window. The title bar indicates the file path is 'C:\Users\maeappli'. The menu bar includes 'File', 'Edit', 'Run', 'Config', 'View', and 'Help'. The main interface has three tabs: 'Basis', 'Command', and 'Results'. The 'Results' tab is active, displaying the following information:

+ $\text{H}_2\text{S}(\text{aq}) + 2 \text{O}_2(\text{aq}) = 2 \text{H}^+ + \text{SO}_4^{--}$

Log K at 25 C = 131.3943

At the bottom of the window, there is a 'Run' button and a status bar that says 'Ready'.

Rxn: Reaction balancing: Solution II



Rxn: Reaction balancing: Solution III

The screenshot shows the 'Rxn Community Edition' window. The title bar indicates the file path is 'C:\Users\maepli'. The menu bar includes 'File', 'Edit', 'Run', 'Config', 'View', and 'Help'. The main window is divided into three tabs: 'Basis', 'Command', and 'Results'. The 'Results' tab is active, displaying the following chemical reaction and its equilibrium constant:

$$\text{H}_2\text{S}(\text{aq}) + 4 \text{H}_2\text{O} = 2 \text{H}^+ + \text{SO}_4^{--} + 4 \text{H}_2(\text{aq})$$

Log K at 25 C = -53.0573

A 'Run' button is located at the bottom left of the main window. The status bar at the bottom left shows 'Ready'.