



The Column Graphing Utility

ProTreat® has the ability to graph a variety of different important parameters that are pertinent to fully understanding the inner workings of a column. Graphing component partial pressure profiles, actual versus equilibrium partial pressure profiles, etc. is a great way to gain deeper understanding of how the column is behaving and why.

Setting up Column Graphs in ProTreat®

To produce the graphs, after running the simulation, left-click once on the desired column then right-click to bring up a list of options available as seen in Figure 1. Select **Manage Graphs** from the list.

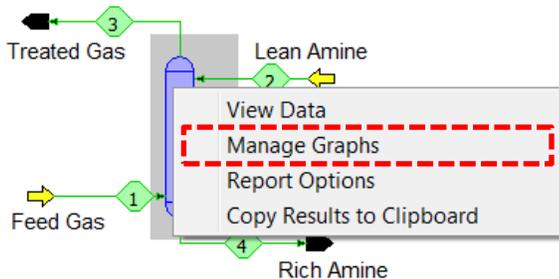


Figure 1. Column options list

Once **Manage Graphs** has been selected, the **Manage Graphs** windows opens and gives an option to **Define** the parameters are you want to see plotted.

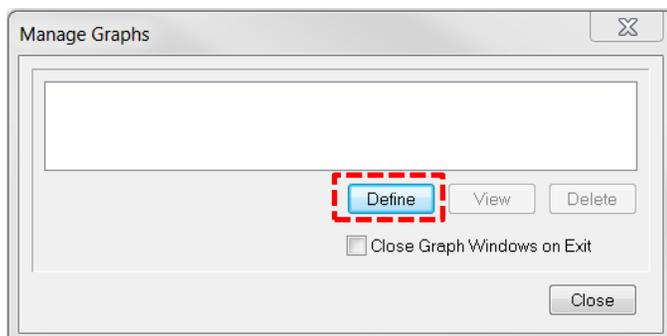


Figure 2. Manage Graphs window

Clicking on the **Define** button brings up another window with all of the graphing options available as seen in Figure 3.

Once the desired graph and accompanying options are selected, clicking **View** will bring up an image

of the graph. These graphs can be exported to the clipboard using the **Graph to Clipboard** button for easy use in reports. Not only can the graphs be exported, but the data that was used to create the graphs can be exported to the clipboard by clicking the **Data to Clipboard** button and pasting into Excel. That data can then be used in creating graphs that have greater editing capabilities and flexibility.

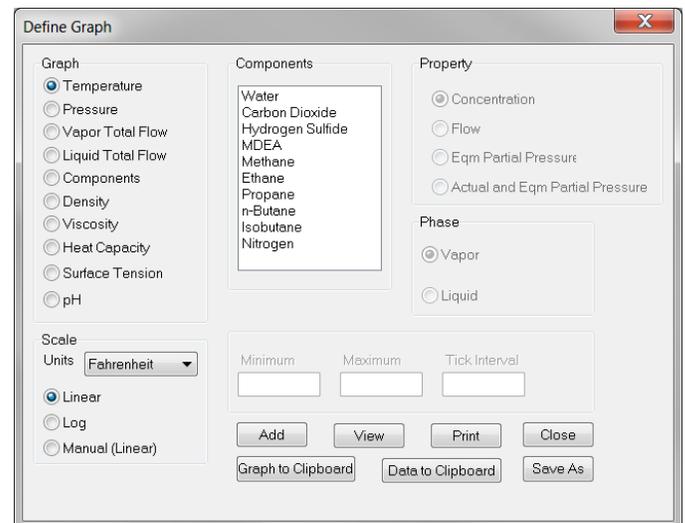


Figure 3. Column graphing options

The minimum and maximum values on **Linear** scale plots can be changed by selecting **Manual (Linear)**, which allows input of the axes bounds as well as the tick mark intervals. This is particularly useful if a gas treating column does not have a pronounced temperature bulge and the default linear scale is not narrow enough to be able to view with enough definition.

PROTIP: Plotting graphs such as temperature profiles can help determine where the acid gas removal is most significant within a column. However, plotting the Actual and Equilibrium Partial Pressure for the acid gas components can tell you if the column is mass transfer pinched, where that pinch is located, and how much of the column is inactive due to the mass transfer pinch.

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