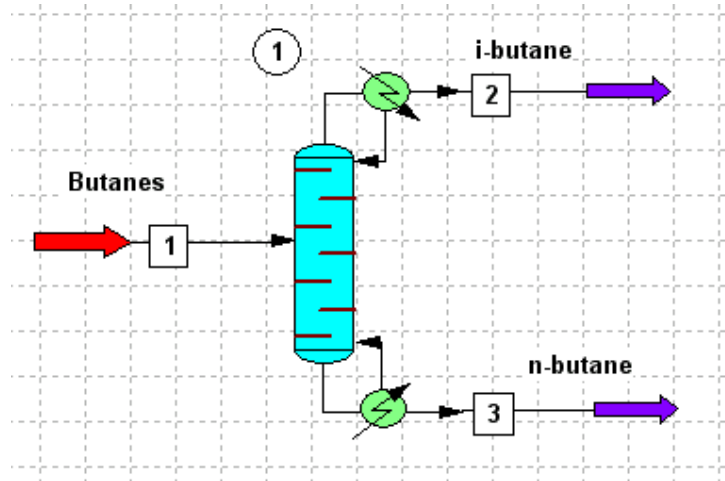


## De-Isobutanizer Sample



### DESCRIPTION:

This example demonstrates how to make a preliminary design of a i-butane/n-butane splitter.

Given the feed's composition, flowrate and thermal state, and assuming pressure drops, a 50 theoretical stage tower equipped with a condenser and a reboiler was designed. Specified were a 99% recoveries of individual butanes to distillate and to bottoms. After several trials, an optimum feed stage location was found. The Eqsiz/Trays option can do tray sizing, calculate pressure drops across trays, and estimate stage efficiencies by O'Connell and Chu correlations. Eqsiz/Packing option can calculate pressure drop through a packed column, including a modern and accurate correlation of Mackowiak.

The CC-Therm module can do a rigorous design of the condenser and the reboiler, including pressure drops. The Tower model can be updated with these data and rerun, resulting in a rigorous design.

