

Removal of Isopentane from Gasoline Plant

The gasoline feed at room temperature flows at 100kg/s through splitter, which splits 55.5 kg/s feed to be sent into the compound separator. This Isopentane tower completely separates the two compounds and discharges to different streams of n-pentane and isopentane. The separation factor in the tower is 11 mass% of isopentane. Using NRTL equation, the n-pentane obtained from the tower is then mixed with the 44.5 kg/s stream in a mixer to obtain a purer fuel towards the end. The resultant feed contains only about 10 percent of Isopentane thus very high success rate of our experiment.

- Tanay Kedia