

INTEGRATED PROCESSING OF METHANOL TO OLEFINS

ABSTRACT

Processing schemes and arrangements for the production of olefins and, more particularly, for the production of light olefins from a methanol feedstock are provided. Such processing schemes and arrangements integrate oxygenate conversion at higher pressures and with subsequent heavy olefins conversion processing to produce additional light olefin products. In particular, this invention provides an efficient method for removal of heavy oxygenate materials such as aldehydes and ketones through the recirculation of a mixed water/methanol solvent from a reactor in which methanol is converted into dimethyl ether and water.

Figure 1 accompanies the abstract