

Extraction of toluene from heptane using deep eutectic solvent

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The most commonly used plastics, clothing, film, rubber, etc. are made by benzene, toluene, and xylene (BTX) among the ingredients of petroleum. Toluene is becoming increasingly important in xylene production through toluene disproportionation and transalkylation with C9 aromatics. In this work, we carried out the experiment work for the extraction of toluene from heptane using deep eutectic solvent consist of methyltriphenyl phosphonium bromide (MTPB) and ethylene glycol with 1:4 molar ratio. The experimental data were compared to the predicted results with COSMO-SAC model.