

Mass transfer study at the extraction of H₂S from liquid hydrocarbon fractions with MEA solutions. Estimation of chemical enhancement factor

Claudia – Irina KONCSAG, Anisoara Arleziana ZAHARIA and Geta MAIORU

“Ovidius” University, Department of Technology and Chemical Engineering, , 8700 Constanta, Romania

Abstract. A theoretical and experimental study was conducted on the system: hydro treated gasoline – H₂S-monoethanolamine solutions. The experimental study was performed in an extraction column equipped with Sulzer structured packing. Also, measuring of drops was performed by photographic technique. The experimental data corroborated with the stationary double layer theory permitted us to estimate the chemical enhancement factor. The study revealed enhancement factors around 3.

Keywords: liquid - liquid extraction, mass transfer, chemical enhancement factor
