

The efficiency of the absorption process of mercaptans in amine solutions

Claudia Irina KONCSAG * and Ancaelena Eliza STERPU^a

^aDepartment of Chemical Engineering and Technology, The Ovidius University of Constanța, Constanța, 8700, Romania

Abstract. The work presents a laboratory method for the study of the mercaptans absorption in different solutions, what is based on the quantitative reaction of the mercaptans with AgNO₃.

Also, a study was made for finding the efficiency of the mercaptans absorption process when using different amine solutions as absorbent: monoethanolamine (MEA), diethylentriamine and aniline-water emulsion. Following the study, practical conclusions were drawn for the choice of the proper solvent.

Keywords: absorption study, solvents, mercaptans absorption
