

Abstract

In this work hydrolysis of phenylisothiocyanate and subsequent decomposition of diphenylthiourea were studied. RP-HPLC with UV detection was selected for monitoring of these reactions. The new method of isocratic elution was developed and mobile phase composition and flow rate were optimized. Hydrolysis of isothiocyanate was studied as a function of pH and reaction temperature. The subsequent decomposition of diphenylthiourea was carried out at 80 °C depending on the pH.