

## TRANSFERUL DE MASĂ INTERFAZIC ÎN SISTEME ETEROGENE LICHID-LICHID. COEFICIENȚI INDIVIDUALI DE TRANSFER

GABRIELA LISA\* și RADU Z. TUDOSE, membru corespondent  
al Academiei Române

*Comunicare prezentată la „Zilele academice timișene”, 25 mai 2001*

INTERPHASE MASS TRANSFER IN THE ETEROGEN LIQUID-LIQUID SYSTEMS. THE INDIVIDUAL TRANSFER COEFFICIENTS. The paper is concerned with mass transfer in liquid-liquid extraction, considering the fact that experimental determination of the individual mass transfer coefficients during liquid-liquid extraction is still considered to be a difficult problem, approached by lots of researchers, in different ways. The improved Lewis cell was used as an efficient method to determine the mass transfer coefficient for any ternary multi-component systems. In this paper the individual mass transfer coefficients were determined for three ternary systems: water-acetone-carbon tetrachloride, water-acetone-chloroform and water-acetone-toluene. Criterial equations were developed to calculate the mass transfer coefficients when one or both (organic and aqueous) phases were agitated and when the solute transfer takes place in both directions.