

Turkish Journal of Chemistry

Turkish Journal

of

Chemistry

 [Keywords](#)
[Authors](#)



chem@tubitak.gov.tr

[Scientific Journals Home](#)
[Page](#)

A Study of the Thermodynamical Interactions of Bisphenol-A Polycarbonate With Some Solvents by Gas Chromatography

Özlem CANKURTARAN, Ferdane YILMAZ

Abstract: Retention diagrams of polycarbonate for n-nonane, ethyl acetate and n-butyl acetate were obtained using inverse gas chromatography in the temperature range 80-240°C. The specific retention volumes, V_g^{circ} , the Flory-Huggins interaction parameters, χ_{12}^{infy} , interaction parameters, χ_{12}^{ast} , and effective exchange-energy parameters \bar{X}_{12} of the equation-of-state theory of polycarbonate for n-octane, n-nonane, n-decane, ethyl acetate, isopropyl acetate, n-butyl acetate, isobutyl acetate, tert-butyl acetate and isoamyl acetate were obtained in the temperature range 200-240°C. The parameter δ_2 was estimated to be 10.7 (cal/cm³)^{1/2} at room temperature using the χ_{12}^{infy} extrapolated to room temperature. Keywords: Bisphenol-A polycarbonate, polymer-solvent interactions, inverse gas chromatography, solubility parameter.

Turk. J. Chem., **21**, (1997), 401-408.

Full text: [pdf](#)

Other articles published in the same issue: [Turk. J. Chem., vol.21, iss.4.](#)