

Hydration numbers of non-electrolytes - application of the acoustic method of Pasynski.

Autorzy

Andrzej Burakowski

Jacek Gliński

Rok wydania

2007

Czasopismo

Chemical Physics

Numer woluminu

332

Strony

336-340

DOI

10.1016/j.chemphys.2006.12.017

Kolekcja

Naukowa

Język

Angielski

Typ publikacji

Artykuł

Streszczenie

Applicability of the acoustic Pasynski method of determination of hydration numbers for non-electrolytic aqueous solutions has been tested and discussed. It was shown for dilute aqueous solutions of few homologous series of organic non-electrolytes that the hydration numbers are strongly and directly depending on the length of solute molecules and the groups which are their constituents. Thus, the results suggest that hydration is an additive parameter, although its mechanisms are different.

Słowa kluczowe

Adiabatic compressibility, Aqueous solutions of non-electrolytes, Hydration, Sound velocity, Hydration numbers, Hydrophobic hydration, Hydrophilic hydration

Adres publiczny

<https://doi.org/10.1016/j.chemphys.2006.12.017>

Strona internetowa wydawcy

<http://www.elsevier.com>