

Russian Journal of General Chemistry 2001 vol.71 N8, pages 1203-1207

Solvent effect on the partial molar volume and the enthalpy of solution of gallium chloride

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Abstract

Partial molar volumes and heats of solution were determined for gallium chloride in benzene, toluene, o-xylene, mesitylene, 1,2-dichloroethane, ethyl acetate, acetonitrile, and 1,4-dioxane. A proportionality in changes in these characteristics is observed for weak π, ν -type complexes in alkylbenzene medium. The partial molar volumes of strong n, ν -type complexes approach a limiting value.

<http://dx.doi.org/10.1023/A:1013204508026>
