

THERMODYNAMICS AND CHEMICAL.....

298.15K时甘露醇-山梨醇-葡萄糖-水四元系及其三元系的密度和黏度

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摘要 To check the applicabilities of the simple density equation and viscosity equation in the semi-ideal solution theory to nonelectrolyte solutions, the densities and viscosities were measured for the quaternary system mannitol-sorbitol-D-glucose-H₂O and its ternary subsystems mannitol-D-glucose-H₂O and sorbitol-D-glucose-H₂O at 298.15K. The results were used to test the applicability of the simple equations for the density and viscosity of the multicomponent nonelectrolyte solution. The agreements between the predicted and measured results are good.

关键词 [density](#) [viscosity](#) [mannitol](#) [sorbitol](#) [D-glucose](#) [simple predictive equations](#)

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Densities and viscosities of the quaternary system mannitol-sorbitol-D-glucose-H₂O and its ternary subsystems at 298.15K

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Abstract To check the applicabilities of the simple density equation and viscosity equation in the semi-ideal solution theory to nonelectrolyte solutions, the densities and viscosities were measured for the quaternary system mannitol-sorbitol-D-glucose-H₂O and its ternary subsystems mannitol-D-glucose-H₂O and sorbitol-D-glucose-H₂O at 298.15K. The results were used to test the applicability of the simple equations for the density and viscosity of the multicomponent nonelectrolyte solution. The agreements between the predicted and measured results are good.

Key words [density](#); [viscosity](#); [mannitol](#); [sorbitol](#); [D-glucose](#); [simple predictive equations](#)

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