

## **Modelling of Retention Factors of Analytes in Chromatography with Ternary Solvent Mobile Phases**

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A Jouyban–Acree model has been applied to search for mathematical representation of retention factors of phenobarbital, phenytoin, and carbamazepine in mobile phases containing water and organic modifiers: methanol, acetonitrile, acetone, and tetrahydrofuran. An average percentage deviation (APD) of experimental and calculated data has been adopted as the criterion of accuracy of the proposed model. It has been proved that the Jouyban–Acree model provides accurate results and can be applied in practice to speed up analytical procedure when ternary solvent mobile phases are used.