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## Chemical Education

### Does A Partition or Distribution Coefficient Exist For A Solute That Distributes Between Two Miscible Solvents?

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#### ABSTRACT

*It is known that for any solute, the Nernst distribution law is between two solvents which are immiscible<sup>1</sup>. It is a well established fact that partition coefficient is meant for un-dissociated species and distribution coefficient is that for total concentration of the un-dissociated and dissociated solute<sup>2</sup>. At constant temperature a solute can distribute between two immiscible solvents so that the ratio of the amounts or concentrations of the solute in two solvents is constant. For all practical purposes and to avoid any confusion we have used the total concentration of the solute in this article.*

**Keywords:** Nernst distribution law, Distribution coefficient, Partition coefficient.

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