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Kinetic performance factor – a measurable metric of separation-time-pressure tradeoff in gas and liquid chromatography

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HIGHLIGHTS

- Kinetic performance factor (KPF) is defined as a metric of tradeoff between time and separation
- The larger is a column KPF the larger is its peak capacity in the same time and at the same pressure
- KPF, effective diameter and nominal diffusivity are introduced as the core set of column parameters
- Use of the core parameters for evaluation of several metrics of column performance demonstrated

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