A Novel Software Tool for Crystallization Process Development

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Abstract
A new software application has been developed to assist both chemists and chemical engineers in the early stage of crystallization process development. The software enables the users to quickly identify feasible process alternatives through generation of solid-liquid equilibrium phase diagrams. It provides a convenient platform to integrate modeling, experimental, and synthesis activities involved in the crystallization process development workflow. Packaged as a collection of tools, it can accommodate various needs in a flexible manner instead of following a rigid workflow. An example illustrates the use of the software in a typical crystallization process development project.

Keywords: Software, crystallization, process development, phase diagram