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“Structure Determination and Characterization of a Family of Primary Alcohol Solvates”

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Abstract

We report the preparation and structural characterization of a family of primary alcohol solvates of a small molecule hydrochloride salt. The structures of the solvates are probed by powder and single crystal X-ray diffraction and the compounds were additionally characterized by polarized light microscopy, thermogravimetric analysis and dynamic scanning calorimetry. A comparison of the lattices of each compound is also provided. The results demonstrate the existence of a common solvating channel and highlight the importance of understanding the form landscape early in the development process.

Key Words: solvate, crystallography, preformulation, crystallization, desolvation, physical characterization

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