

W0343

Relationships of Problematic Crystal Forms...How they Start and Where They Go. Michael A. Galella, Robert Borzilleri, Rama Chidambaram, George Derbin, John DiMarco, Jack Gougoutas, Jean Lajeunesse, Mary Malley, William L. Parker, Victor Rosso, Solid State Chemistry, Bristol-Myers Squibb Pharmaceutical Research Inst., Princeton, NJ 08543.

In today's pharmaceutical industry it is important to study numerous crystal forms of new drug candidates and synthetic intermediates. More than twenty crystal structures have been determined for one particular drug candidate, a base. Many are unstable solvates which desolvate and transform to other forms. In addition, several forms of five different salts have been studied. In one case a di-acetic acid solvate of a mono-HCl salt has been found to disproportionate in water and recrystallize as an acetic acid salt.