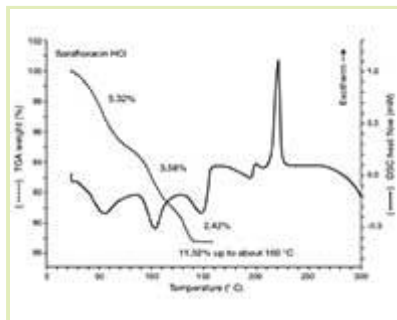


## Drying Pharmaceutical Solids—Hydrates and Enantiotropic Polymorphs

May 21, 2013 2:21 pm EDT



Hydrate is a broad term used to describe the various ways that water can be incorporated into the crystal of a pharmaceutical solid. Dehydration of different hydrates requires different amounts of energy. The most useful analytical methodologies for studying dehydration are thermogravimetric analysis (TGA), differential scanning calorimetry (DSC), hot stage microscopy, and hot stage X-ray diffraction (XRD). Pharmaceutical dryers can heat by either convection or conduction. Changes in dryer types or drying parameters should require validation. Near-infrared spectroscopy (NIR) is a reliable process...

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