

International Centre for Diffraction Data

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INFORMATION Technology



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Company Description

ICDD is a non-profit scientific organization dedicated to collecting, editing, publishing, and distributing powder diffraction data for the identification of crystalline materials. Our mission is to continue to be the world center for quality diffraction and related data to meet the needs of the technical community. We promote the application of materials characterization methods in science and technology by providing forums for the exchange of ideas and information. We sponsor the Pharmaceutical Powder X-ray Diffraction Symposium (PPXRD), Denver X-ray Conference; its proceedings, *Advances in X-ray Analysis* and the journal, *Powder Diffraction*. ICDD and its members conduct workshops and clinics on materials characterization at our headquarters in Newtown Square, Pennsylvania and at X-ray analysis conferences around the world.

Technical Services

- PDF-4/Organics 2014 database
- Pharmaceutical Powder X-ray Diffraction
- Symposium (PPXRD)
- Denver X-ray Conference
- ICDD XRD Clinics and Workshops
- *Powder Diffraction* journal

Technical Symposium

ICDD will sponsor PPXRD, 13th Pharmaceutical Powder X-ray Diffraction Symposium, in May

2014 in Europe. This annual symposium is designed to create a forum for the exchange of knowledge and cutting-edge ideas among those interested in the combined fields of XRD and pharmaceutical sciences. PPXRD will also include a workshop on practical applications of X-ray analysis in the study of pharmaceutical materials. Topics will include patent and regulatory issues, formulation, product development, drug delivery, polymorphs, amorphous and nanomaterials, complimentary techniques, and much more.

Products and Services

Material Identification Databases PDF-4/Organics 2014

PDF-4/Organics provides comprehensive coverage as the world's largest X-ray powder diffraction database for organics and organometallics. This database represents a combination of patterns calculated from single crystal data, as well as experimentally-derived powder diffraction patterns. The 479,278 entries include pharmaceuticals, polymers (including starches and celluloses), excipients, common inorganic salts, energetic materials, catalysts, metal-organic frameworks, and materials of interest for forensic studies. To help users in various fields, materials are classified into a total of 32 subfiles. Four major subfiles are based on chemistry, and approximately 28 smaller subfiles focus on commercial applications. The subfiles help direct searches, improving identification efficiency.

Markets Served

ICDD's PDF-4/Organics 2014 database is designed for a multitude of applications in the pharmaceutical, regulatory, specialty chemical, biomaterials, and forensic fields. Its design allows for easy interface with diffractometers and data analysis systems of leading software developers and manufacturers of X-ray equipment. The database is useful for scientists working in consumer products, catalysis, forensic science, analytical labs, drug discovery, and production.

