



- S** Standardized data
- M** More Coverage
- A** All data sets are evaluated for quality
- R** Reviewed, edited and corrected prior to publication
- T** Targeted for material identification and characterization

Make the SMART move

ICDD databases are the only crystallographic databases in the world with quality marks and quality review processes that are ISO certified.

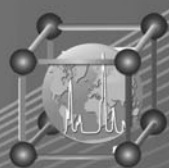
The Powder Diffraction File (PDF)

PDF-2 Release 2014	274,443 material entries
PDF-4+ 2014	354,264 material entries
WebPDF-4+ 2014	354,264 material entries
PDF-4/Minerals 2014	41,423 material entries
PDF-4/Organics 2015	494,966 material entries



www.icdd.com | marketing@icdd.com

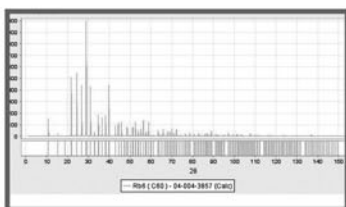
ICDD, the ICDD logo and PDF are registered in the U.S. Patent and Trademark Office. Powder Diffraction File is a trademark of JCPDS—International Centre for Diffraction Data. ©2014 JCPDS—International Centre for Diffraction Data.



PDF-4+ 2014

*Designed for phase identification
and quantitative analysis*

*Comprehensive materials database
featuring 354,200+ entries*



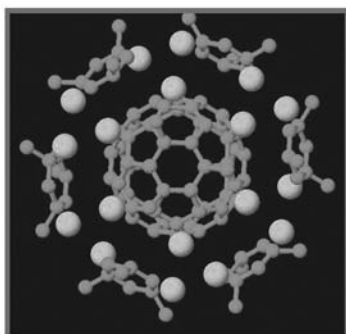
*All entries have digital patterns for use
in total pattern analysis*

239,568 entries with atomic coordinates

*258,125 entries have I/I_c values for quantitative
analysis by Reference Intensity Ratio*

*All entries are stored in a standardized format
for easy search and interpretation*

*All entries go through a rigorous
editorial process to ensure quality*

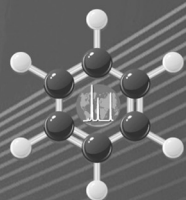


COMPREHENSIVE ❖ STANDARDIZED ❖ QUALITY REVIEWED



www.icdd.com | marketing@icdd.com

ICDD, the ICDD logo and PDF are registered in the U.S. Patent and Trademark Office.
Powder Diffraction File is a trademark of JCPDS – International Centre for Diffraction Data.
©2014 JCPDS – International Centre for Diffraction Data.



PDF-4/Organics 2015

Solve Difficult Problems, Get Better Results

***Comprehensive materials database featuring
494,000+ organic and organometallic compounds***

Features the largest collection of pharmaceuticals, excipients and polymers

Highly targeted collection, with special focus on materials used in commercial and regulatory fields

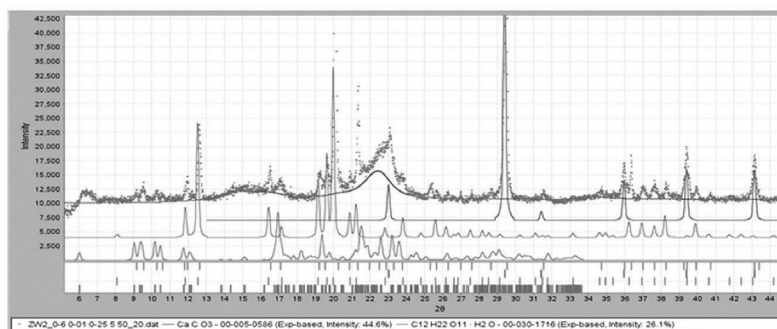
Enhanced identification for crystalline, nano and amorphous materials

Trade names for over 9,000 bioactive/ pharmaceutical entries

Integrated data mining software

Sleve+ Search-indexing Software (included as an added-value)

***Combines powder diffraction and
crystal structure reference data***



The four phase identification of the formulation of Lipitor uses references from a single crystal determination, an experimental powder pattern of cellulose I β , a calculated powder pattern and pattern extracted from the patent literature. The identification required an inorganic excipient, polymer excipient and two organic compounds. A variety of reference materials and sources enabled the identification.

COMPREHENSIVE ❖ STANDARDIZED ❖ QUALITY REVIEWED



www.icdd.com | marketing@icdd.com

ICDD, the ICDD logo and PDF are registered in the U.S. Patent and Trademark Office. Powder Diffraction File is a trademark of JCPDS—International Centre for Diffraction Data. ©2014 JCPDS—International Centre for Diffraction Data.



Make the SMART move to PDF-4+

ICDD databases are the only crystallographic databases in the world with quality marks and quality review processes that are ISO certified.

S

Standardized data

M

More coverage

A

All data sets are evaluated for quality

R

Reviewed, edited and corrected prior to publication

T

Targeted for material identification and characterization

PDF-4+ 2014 features over 354,000 entries including
239,000+ entries with atomic coordinates.



www.icdd.com | marketing@icdd.com

ICDD, the ICDD logo and PDF are registered in the U.S. Patent and Trademark Office.
Powder Diffraction File is a trademark of JCPDS—International Centre for Diffraction Data.
©2014 JCPDS—International Centre for Diffraction Data.

