

PDF-2 Tools and Searches



PDF-2 2021

The PDF-2 2021 database is powered by our integrated search display software. PDF-2 2021 boasts 71 search selections coupled with 57 display fields resulting in a nearly limitless choice of data mining options. This quick tutorial will introduce you to the basics of PDF-2 filters available to you to refine your search.

Getting Started: The Toolbar

Search Window: Overview of Search Classifications

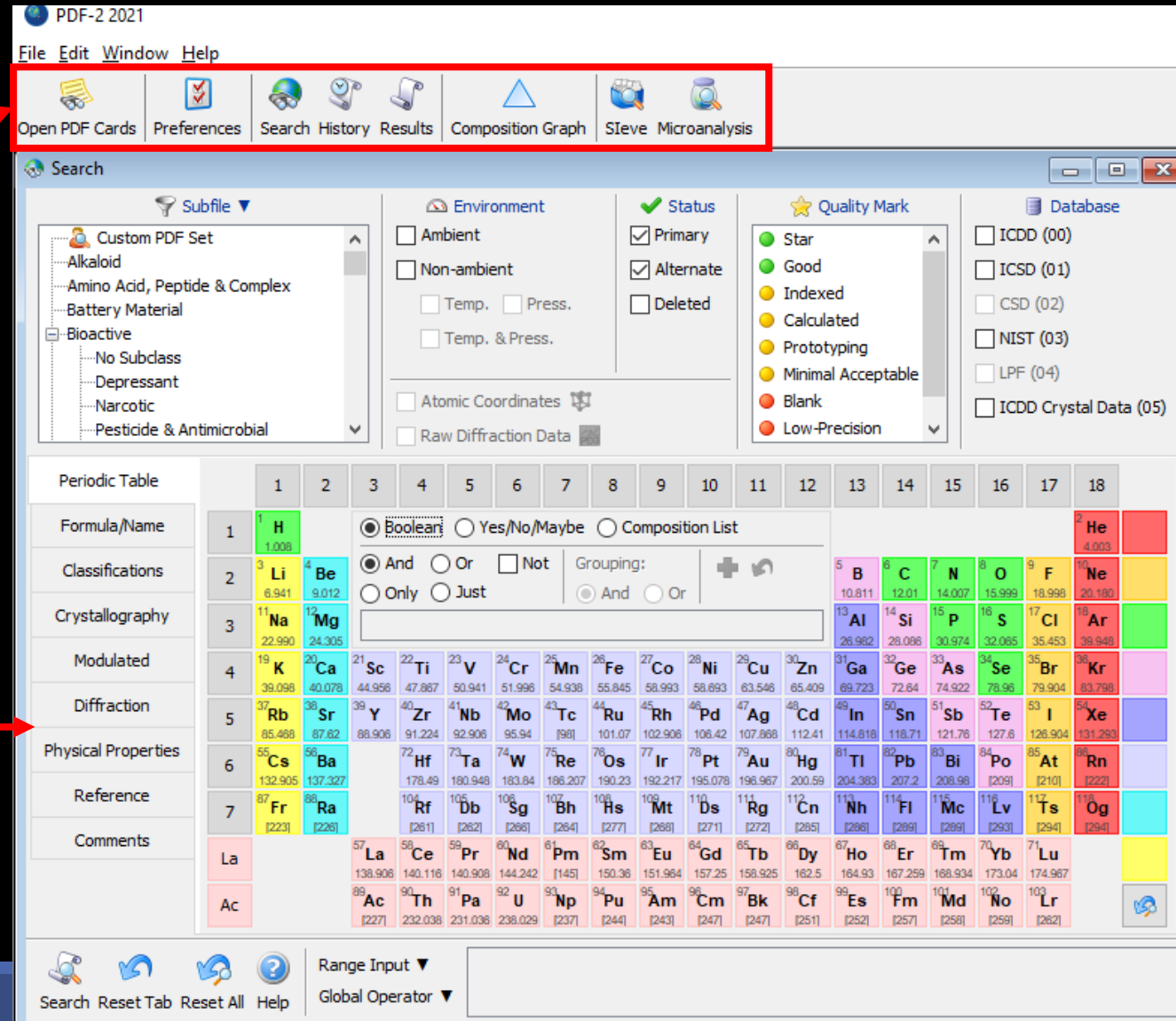
Data Mining Basics

Search Example

PDF Data Card

Launch Screen

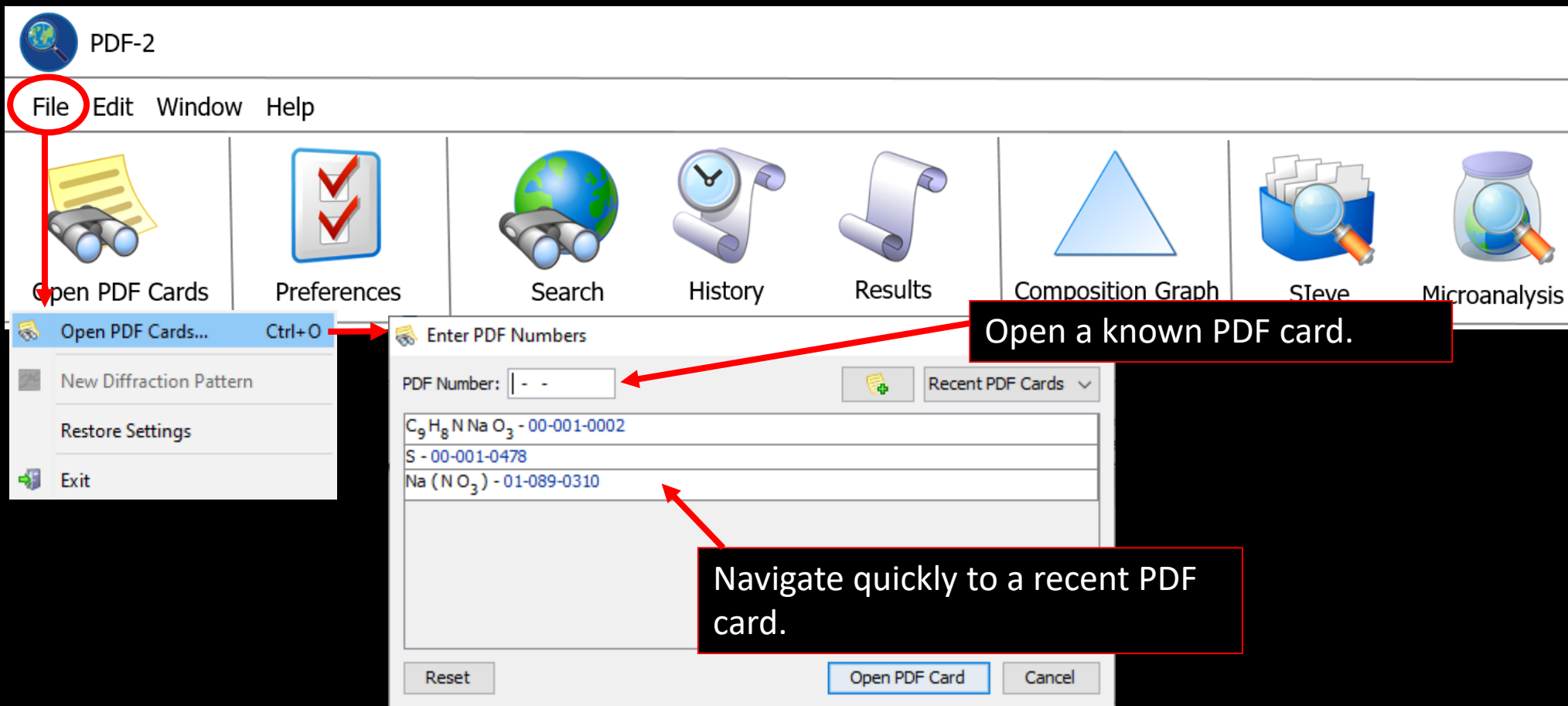
This will be the opening screen when you have correctly opened PDF-2 2021.



Tool Bar

Primary Search Menu

Getting Started



Getting Started

PDF-2

File Edit Window Help

Cut Ctrl+X
Copy Ctrl+C
Paste Ctrl+V
Preferences...

Search History

Help Contents
Online Tutorials
Contact ICDD
Registration
About PDF-2 2021

Help information regarding use, support, license policy, and registration of the PDF-2.

Customize Radiation, Display settings, and many more features of the PDF-2.

Preferences

General Search Diffraction Pattern Sieve

Radiation

☒ X-ray Diffraction

Anode: Cu Type: Ka1 Ka1 (Å): 1.54056 (100%) Ka2/Ka1: 0 Ka2 (Å): 0 (0%) Kβ (Å): 0 (0%)

☐ Neutron Diffraction*

☐ Electron Diffraction

Display

X-Axis: 2θ (°)

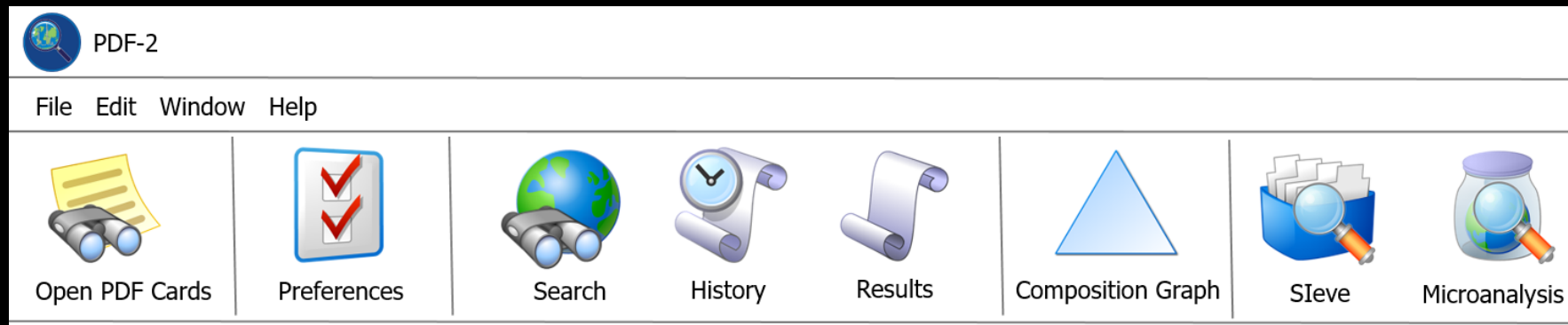
Y-Axis: Linear Intensity

Imported Plot: Line

*Requires atomic coordinates or structure factors

Reset OK Cancel Apply Help

Tool Bar



Quick Navigation Icons



Select a PDF Card



Select Preferences Module



Open Search Window



Open History Window



Open Results Window



Composition Graph



Open Sieve



Microanalysis

Primary Search Menu

The Search Window displays nine tabs. Each tab features multiple search criteria to allow you to data mine the PDF-2. Searching the PDF-2 is an iterative process that allows you to input user-defined criteria, view the results, and combine additional criteria to refine your results.

Search

Subfile

- Custom PDF Set
 - Alkaloid
 - Amino Acid, Peptide & Complex
 - Battery Material
 - Bioactive
 - No Subclass
 - Depressant
 - Narcotic
 - Pesticide & Antimicrobial

Environment

- ☐ Ambient
- ☐ Non-ambient
 - ☐ Temp.
 - ☐ Press.
 - ☐ Temp. & Press.
- ☐ Atomic Coordinates
- ☐ Raw Diffraction Data

Status

- ☒ Primary
- ☒ Alternate
- ☐ Deleted

Quality Mark

- ☒ Star
- ☒ Good
- ☒ Indexed
- ☒ Calculated
- ☒ Prototyping
- ☒ Minimal Acceptable
- ☒ Blank
- ☒ Low-Precision

Database

- ☐ ICDD (00)
- ☐ ICSD (01)
- ☐ CSD (02)
- ☐ NIST (03)
- ☐ LPF (04)
- ☐ ICDD Crystal Data (05)

Periodic Table

	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18
Formula/Name	1 H 1.008																	2 He 4.003
Classifications	3 Li 6.941	4 Be 9.012											5 B 10.811	6 C 12.01	7 N 14.007	8 O 15.999	9 F 18.998	10 Ne 20.180
Crystallography	11 Na 22.990	12 Mg 24.305											13 Al 26.982	14 Si 28.086	15 P 30.974	16 S 32.065	17 Cl 35.453	18 Ar 39.948
Modulated	19 K 39.098	20 Ca 40.078	21 Sc 44.956	22 Ti 47.867	23 V 50.941	24 Cr 51.996	25 Mn 54.938	26 Fe 55.845	27 Co 58.993	28 Ni 58.693	29 Cu 63.546	30 Zn 65.409	31 Ga 69.723	32 Ge 72.64	33 As 74.922	34 Se 78.96	35 Br 79.904	36 Kr 83.798
Diffraction	37 Rb 85.468	38 Sr 87.62	39 Y 88.906	40 Zr 91.224	41 Nb 92.906	42 Mo 95.94	43 Tc [98]	44 Ru 101.07	45 Rh 102.906	46 Pd 106.42	47 Ag 107.868	48 Cd 112.41	49 In 114.818	50 Sn 118.71	51 Sb 121.78	52 Te 127.6	53 I 126.904	54 Xe 131.293
Physical Properties	55 Cs 132.905	56 Ba 137.327		72 Hf 178.49	73 Ta 180.948	74 W 183.84	75 Re 186.207	76 Os 190.23	77 Ir 192.217	78 Pt 195.078	79 Au 196.967	80 Hg 200.59	81 Tl 204.383	82 Pb 207.2	83 Bi 208.98	84 Po [209]	85 At [210]	86 Rn [222]
Reference	87 Fr [223]	88 Ra [226]		104 Rf [261]	105 Db [262]	106 Sg [266]	107 Bh [264]	108 Hs [277]	109 Mt [268]	110 Ds [271]	111 Rg [272]	112 Cn [285]	113 Nh [286]	114 Fl [289]	115 Mc [289]	116 Lv [293]	117 Ts [294]	118 Og [294]
Comments	La		57 La 138.908	58 Ce 140.116	59 Pr 140.908	60 Nd 144.242	61 Pm [145]	62 Sm 150.36	63 Eu 151.964	64 Gd 157.25	65 Tb 158.925	66 Dy 162.5	67 Ho 164.93	68 Er 167.259	69 Tm 168.934	70 Yb 173.04	71 Lu 174.967	
	Ac		89 Ac [227]	90 Th 232.038	91 Pa 231.036	92 U 238.029	93 Np [237]	94 Pu [244]	95 Am [243]	96 Cm [247]	97 Bk [247]	98 Cf [251]	99 Es [252]	100 Fm [257]	101 Md [258]	102 No [259]	103 Lr [262]	

Boolean ☒ Yes/No/Maybe ☐ Composition List

And ☒ Or ☐ Not ☐ Grouping: ☒ And ☐ Or

Only ☐ Just ☐

Search Reset Tab Reset All Help

Range Input

Global Operator

Search Window

Subfiles/Database Filters

Search

Subfile ▼

- Custom PDF Set
- Alkaloid
- Amino Acid, Peptide & Complex
- Battery Material
- Bioactive
 - No Subclass
 - Depressant
 - Narcotic
 - Pesticide & Antimicrobial

Environment

☐ Ambient

☐ Non-ambient

☐ Temp. ☐ Press.

☐ Temp. & Press.

☐ Atomic Coordinates

☐ Raw Diffraction Data

Status

☒ Primary

☒ Alternate

☐ Deleted

Quality Mark

- Star
- Good
- Indexed
- Calculated
- Prototyping
- Minimal Acceptable
- Blank
- Low-Precision

Database

☐ ICDD (00)

☐ ICSD (01)

☐ CSD (02)

☐ NIST (03)

☐ LPF (04)

☐ ICDD Crystal Data (05)

Periodic Table

Formula/Name

Classifications

Crystallography

Modulated

Diffraction

Physical Properties

Reference

Comments

1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18

1 H 1.008

2 He 4.003

3 Li 6.941

4 Be 9.012

5 B 10.811

6 C 12.01

7 N 14.007

8 O 15.999

9 F 18.998

10 Ne 20.180

11 Na 22.990

12 Mg 24.305

13 Al 26.982

14 Si 28.086

15 P 30.974

16 S 32.065

17 Cl 35.453

18 Ar 39.948

19 K 39.098

20 Ca 40.078

21 Sc 44.956

22 Ti 47.867

23 V 50.941

24 Cr 51.996

25 Mn 54.938

26 Fe 55.845

27 Co 58.933

28 Ni 58.693

29 Cu 63.546

30 Zn 65.409

31 Ga 69.723

32 Ge 72.64

33 As 74.922

34 Se 78.96

35 Br 79.904

36 Kr 83.798

37 Rb 85.468

38 Sr 87.62

39 Y 88.906

40 Zr 91.224

41 Nb 92.906

42 Mo 95.94

43 Tc

44 Ru

45 Rh

46 Pd

47 Ag

48 Cd

49 In

50 Sn

51 Sb

52 Te

53 I

54 Xe

55 Cs 132.905

56 Ba 137.327

57 La 138.905

58 Ce 140.116

59 Pr 140.908

60 Nd 144.242

61 Pm

62 Sm 150.36

63 Eu 151.964

64 Gd 157.25

65 Tb 158.925

66 Dy 162.50

67 Ho 164.930

68 Er 167.26

69 Tm 168.933

70 Yb 173.054

71 Lu 174.967

72 Hf 178.49

73 Ta 180.948

74 W 183.84

75 Re 186.207

76 Os 190.23

77 Ir 192.22

78 Pt 195.084

79 Au 196.967

80 Hg 200.59

81 Tl 204.38

82 Pb 207.2

83 Bi 208.980

84 Po

85 At

86 Rn

87 Fr [223]

88 Ra [226]

89 Ac

90 Th 232.038

91 Pa 231.036

92 U 238.029

93 Np [237]

94 Pu [244]

95 Am [243]

96 Cm [247]

97 Bk [247]

98 Cf [251]

99 Es [252]

100 Fm [257]

101 Md [258]

102 No [259]

103 Lr [262]

Boolean ☒ Yes/No/Maybe ☐ Composition List

And ☒ Or ☐ Not

Only ☐ Just

Grouping: ☐ And ☐ Or

Range Input ▼

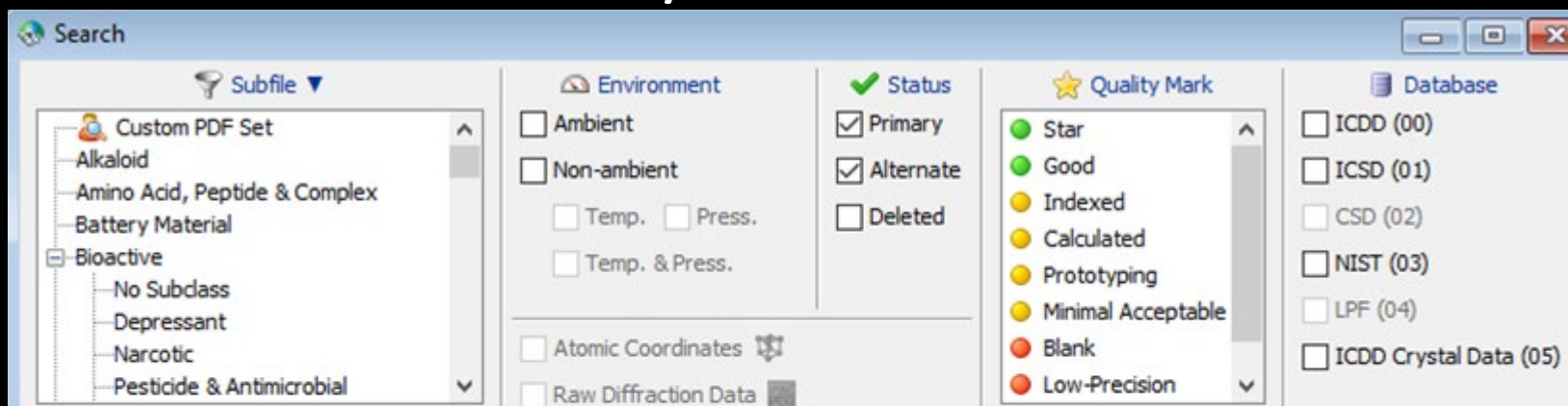
Global Operator ▼

Search Reset Tab Reset All Help

Refine your search by selecting filters.
Select criteria under **Subfile**, **Environment**,
Status, **Quality Mark (QM)**, and **Database**.

Search Window

Subfiles/Database Filters



Filters:

Subfile – select filters related to assigned subfiles/subclass.

Environment – select filters related to the environment (especially temperature and pressure).

Status – select filters based on the status of the pattern, which can be Primary, Alternate, or Deleted.

Quality Mark (QM) – select filters related to the quality evaluation assigned to the data.

Database – search the entire database or select the data entry source (i.e., ICDD (00) – ICDD's experimental patterns).

Search Window

Periodic Table Filters

The Search Window interface includes the following sections:

- Subfile:** Custom PDF Set, Alkaloid, Amino Acid, Peptide & Complex, Battery Material, Bioactive, No Subclass, Depressant, Narcotic, Pesticide & Antimicrobial.
- Environment:** Ambient, Non-ambient, Temp., Press., Temp. & Press., Atomic Coordinates, Raw Diffraction Data.
- Status:** Primary, Alternate, Deleted.
- Quality Mark:** Star, Good, Indexed, Calculated, Prototyping, Minimal Acceptable, Blank, Low-Precision.
- Database:** ICDD (00), ICSD (01), CSD (02), NIST (03), LPF (04), ICDD Crystal Data (05).
- Periodic Table:** A grid of elements with their symbols, atomic numbers, and names. A red arrow points to the 'Boolean' filter option.
- Filters:** Boolean, And, Or, Not, Only, Just, Grouping: And, Or.
- Range Input:** A dropdown menu for selecting a range of elements.
- Global Operator:** A dropdown menu for selecting a global operator.

Refine your search by selecting filters based upon the elements in a material. Select elements individually (i.e., *H*, *He*, *Li*, etc.) or by group (i.e., *IA*, *Noble Gases*, *Period 1*, etc.).

Select the *Inner Operator* to combine the elements in the group using *Not*, *And*, *Or*, *Only* and *Just*.

Select the *Outer Operator* to combine element groups using *And* & *Or*.

Search Window

Periodic Table Filters

Search

Subfile ▼

- Custom PDF Set
 - Alkaloid
 - Amino Acid, Peptide & Complex
 - Battery Material
 - Bioactive
 - No Subclass
 - Depressant
 - Narcotic
 - Pesticide & Antimicrobial

Environment

- ☐ Ambient
- ☐ Non-ambient
 - ☐ Temp.
 - ☐ Press.
 - ☐ Temp. & Press.
- ☐ Atomic Coordinates
- ☐ Raw Diffraction Data

Status

- ☒ Primary
- ☒ Alternate
- ☐ Deleted

Quality Mark

- ☒ Star
- ☒ Good
- ☒ Indexed
- ☒ Calculated
- ☒ Prototyping
- ☒ Minimal Acceptable
- ☒ Blank

Database

- ☐ ICDD (00)
- ☐ ICSD (01)
- ☐ CSD (02)
- ☐ NIST (03)
- ☐ LPF (04)
- ☐ ICDD Crystal Data (05)

Periodic Table

Formula/Name

Classifications

Crystallography

Modulated

Diffraction

Physical Properties

Reference

Comments

Boolean ☒ Yes/No/Maybe ☐ Composition

Switch to No

Range Input ▼

Global Operator ▼

Search Reset Tab Reset All Help

For the **Yes/No/Maybe** search, click an element to cycle through these three states:

Yes - This element must exist in the pattern (white)

No - This element must not exist in the pattern (black)

Maybe - This element may exist in the pattern (colored)

Search Window

Periodic Table Filters

Composition Diagram List - This lists all phases in a binary system (if two elements are selected), all phases in a ternary system (if three elements are selected), and all phases in a quaternary system (if four elements are selected). The phases are sorted by atomic fraction (using the empirical formula), going from one side of the phase diagram to the other side.

Select one or more phases from the list and click Search to view all of the PDF entries that have the selected empirical formula(s).

The screenshot shows the 'Search' window with the 'Periodic Table Filters' section. The 'Composition Diagram List' is selected under the 'Select 2-5 elements' dropdown. The right panel displays a table of empirical formulas and their corresponding number of hits.

Empirical Formula	Hits
Cl ₂	7
Cl ₄ Pt	3
Cl ₃ Pt	1
Cl ₂ Pt	9
Pt	52

At the bottom of the window, there are buttons for 'Search', 'Reset Tab', 'Reset All', and 'Help', along with a 'Range Input' and 'Global Operator' dropdown menu.

Search Window

Formula/Name

Refine your search by selecting filters based upon the elements in a material.

Chemical Formula – filters based on the molecular formula.

Empirical Formula – filters on an element that has a particular atom count as expressed in the formula.

Structural Formula – filters on the chemical formula that shows how atoms are bonded to one another in a molecule.

Number of Elements – filters on the total number of unique elements in a chemical formula.

Molecular Wt (g/mol) – filters based on molecular weight in g/mol

Composition – filters on the weight percent or atomic percent of the formula.

- Any Formula
- Chemical Formula
- Empirical Formula
- Structural Formula
- Contains Elements
- Contains Phrase
- Exactly
- Not

The screenshot shows the 'Search' window with a sidebar on the left containing a tree view of categories: Custom PDF Set, Alkaloid, Amino Acid, Peptide & Complex, Battery Material, Bioactive (expanded), No Subclass, Depressant, Narcotic, and Pesticide & Antimicrobial. The main area is divided into sections: Environment (Ambient, Non-ambient, Temp., Press., Temp. & Press., Atomic Coordinates, Raw Diffraction Data), Status (Primary, Alternate, Deleted), and Quality (Star, Good, Indexed, Calculated, Prototyping, Minimal Access, Blank, Low-Precision). Below these are search filters: Formula (Any Formula), Name (Any Name), IMA No., CAS Number, Number of Elements (Low, High), Molecular Wt (g/mol) (Value, ±Error), and Composition (Element, Weight %, ±Error, and a red X icon). A red arrow points from the 'Any Formula' option in the sidebar to the 'Formula' filter dropdown.

Search Window

Formula/Name

The Search Window interface includes the following sections:

- Subfile:** Custom PDF Set, Alkaloid, Amino Acid, Peptide & Complex, Battery Material, Bioactive (expanded), No Subclass, Depressant, Narcotic, Pesticide & Antimicrobial.
- Environment:** Ambient, Non-ambient, Temp., Press., Temp. & Press., Atomic Coordinates, Raw Diffraction Data.
- Status:** Primary, Alternate, Deleted.
- Quality Mark:** Star, Good, Indexed, Calculated, Prototyping, Minimal Acceptable, Blank, Low-Precision.
- Database:** ICDD (00), ICSD (01), CSD (02), NIST (03), LPF (04), ICDD Crystal Data (05).
- Search Filters (Left Panel):** Periodic Table, Formula/Name, Classifications, Crystallography, Modulated, Diffraction, Physical Properties, Reference, Comments.
- Search Criteria (Right Panel):** Formula (Any Formula), Name (Any Name), IMA No., Number of Elements (Low, High), Molecular Wt (g/mol) (Value, ±Error), Composition (Element, Weight).
- Bottom Bar:** Search, Reset Tab, Reset All, Help, Range Input, Global Operator.

Refine your search by selecting filters based upon the name or name fragment of a material.

Compound Name – filters based on the compound name.

Mineral Name – filters based on the mineral name.

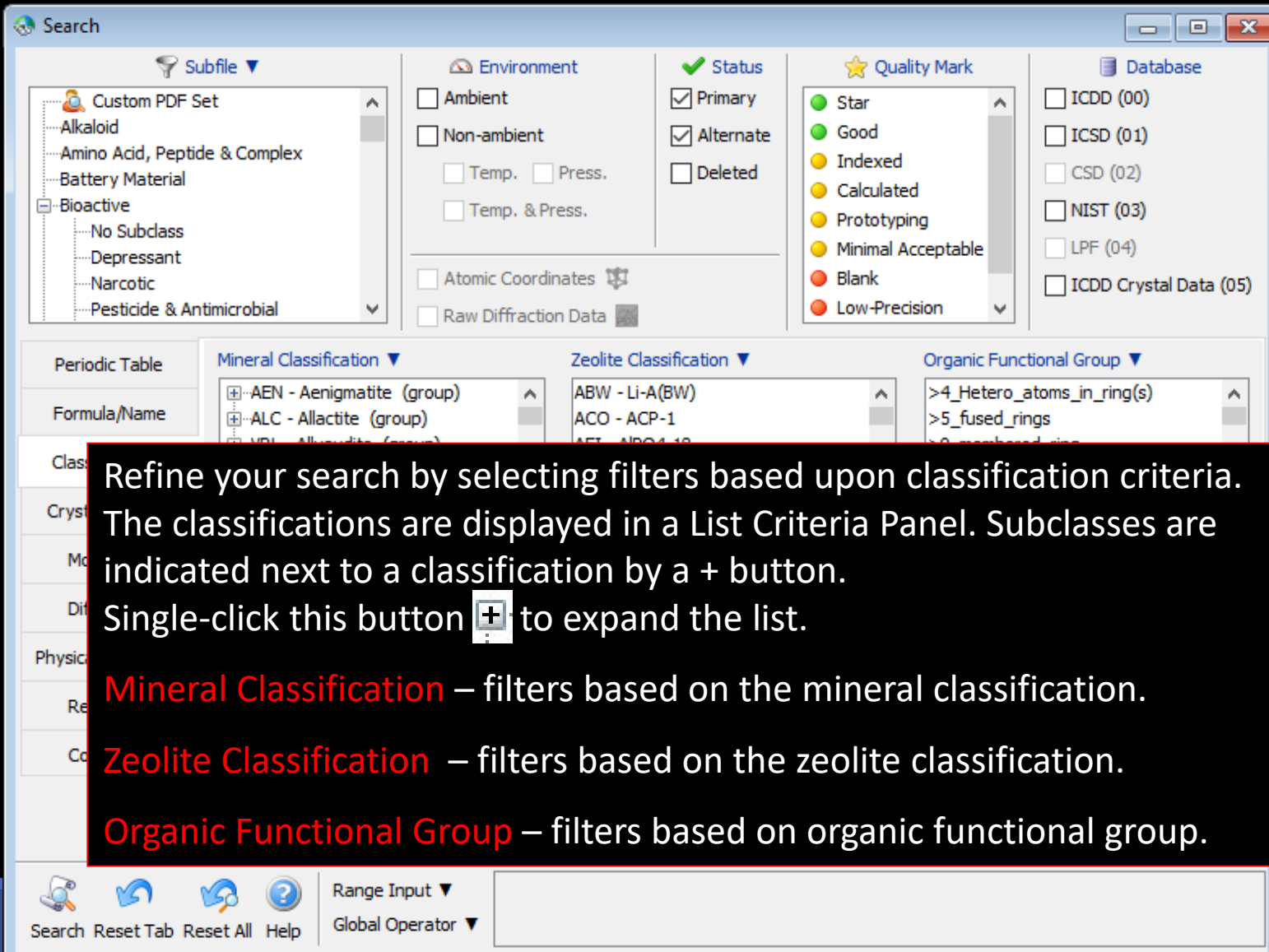
Alternate Name – filters based on another recognized name of the material.


Zeolite Name – filters based on the zeolite name.


- Any Name
- Compound Name
- Mineral Name
- Alternate Name
- Zeolite Name
- Contains Fragments
- Contains Phrase
- Exactly
- Not

Search Window

Classifications



The screenshot shows the 'Search' window with several filter panels. The 'Subfile' panel on the left lists categories like 'Custom PDF Set', 'Alkaloid', 'Amino Acid, Peptide & Complex', 'Battery Material', 'Bioactive', 'No Subclass', 'Depressant', 'Narcotic', and 'Pesticide & Antimicrobial'. The 'Environment' panel includes 'Ambient', 'Non-ambient', and 'Atomic Coordinates'. The 'Status' panel has 'Primary', 'Alternate', and 'Deleted'. The 'Quality Mark' panel lists 'Star', 'Good', 'Indexed', 'Calculated', 'Prototyping', 'Minimal Acceptable', 'Blank', and 'Low-Precision'. The 'Database' panel includes 'ICDD (00)', 'ICSD (01)', 'CSD (02)', 'NIST (03)', 'LPF (04)', and 'ICDD Crystal Data (05)'. Below these are three classification panels: 'Mineral Classification' (showing 'AEN - Aenigmatite (group)' and 'ALC - Allactite (group)'), 'Zeolite Classification' (showing 'ABW - Li-A(BW)' and 'ACO - ACP-1'), and 'Organic Functional Group' (showing '>4_Hetero_atoms_in_ring(s)' and '>5_fused_rings'). A red box highlights the text: 'Refine your search by selecting filters based upon classification criteria. The classifications are displayed in a List Criteria Panel. Subclasses are indicated next to a classification by a + button. Single-click this button  to expand the list. Mineral Classification – filters based on the mineral classification. Zeolite Classification – filters based on the zeolite classification. Organic Functional Group – filters based on organic functional group.'

Refine your search by selecting filters based upon classification criteria. The classifications are displayed in a List Criteria Panel. Subclasses are indicated next to a classification by a + button. Single-click this button  to expand the list.

Mineral Classification – filters based on the mineral classification.

Zeolite Classification – filters based on the zeolite classification.

Organic Functional Group – filters based on organic functional group.

Search Window

Pearson Symbol Code

Search

Subfile ▼

- Custom PDF Set
- Alkaloid
- Amino Acid, Peptide & Complex
- Battery Material
- Bioactive
 - No Subclass
 - Depressant
 - Narcotic
 - Pesticide & Antimicrobial

Environment

☐ Ambient

☐ Non-ambient

☐ Temp. ☐ Press.

☐ Temp. & Press.

☐ Atomic Coordinates

☐ Raw Diffraction Data

Status

☒ Primary

☒ Alternate

☐ Deleted

Quality Mark

- Star
- Good
- Indexed
- Calculated
- Prototyping
- Minimal Acceptable
- Blank
- Low-Precision

Database

☐ ICDD (00)

☐ ICSD (01)

☐ CSD (02)

☐ NIST (03)

☐ LPF (04)

☐ ICDD Crystal Data (05)

Periodic Table

Formula/Name

Classifications

Crystallography

Modulated

Diffraction

Physical Properties

Reference

Comments

Mineral Classification ▼

- AEN - Aenigmatite (group)
- ALC - Allactite (group)
- VRL - Alluaudite (group)
- ALM - Alum (group)
- ALN - Alunite (supergroup)

Zeolite Classification ▼

- ABW - Li-A(BW)
- ACO - ACP-1
- AEI - AlPO4-18
- AEL - AlPO4-11
- AEN - AlPO-EN3

Organic Functional Group ▼

- >4_Hetero_atoms_in_ring(s)
- >5_fused_rings
- >9_membered_ring
- 1_Hetero_atom_in_ring(s)
- 1,2_dione____O=C-C=O

Pearson Symbol ▼

With Hydrogen

Prototype Structure ▼

Any Prototype Structure

Formula Type (ANX) ▼

Wyckoff Sequence ▼

Range Input ▼

Global Operator ▼

Search Reset Tab Reset All Help

Filters for Pearson Symbol Codes with and without Hydrogen.

Filters based on a user-constructed Pearson Symbol Code.

Search Window

Crystallography

Search

Subfile ▼

- Custom PDF Set
 - Alkaloid
 - Amino Acid, Peptide & Complex
 - Battery Material
 - Bioactive
 - No Subclass
 - Depressant
 - Narcotic
 - Pesticide &

Periodic Table

Formula/Name

Classifications

Crystallography

Modulated

Diffraction

Physical Properties

Reference

Comments

Environment

- ☐ Ambient
- ☐ Non-ambient
 - ☐ Temp.
 - ☐ Press.
 - ☐ Temp. & Press.

Status

- ☒ Primary
- ☒ Alternate
- ☐ Deleted

Quality Mark

- ☒ Star
- ☒ Good
- ☒ Indexed
- ☒ Calculated
- ☒ Prototyping
- ☒ Minimal Acceptable
- ☒ Black

Database

- ☐ ICDD (00)
- ☐ ICSD (01)
- ☐ CSD (02)
- ☐ NIST (03)
- ☐ LPF (04)
- ☐ ICDD Crystal Data (05)

Space Group ▼

Space Group Symbol

Crystal Data Reduced Cell Author's Unit Cell Supercell/Subcell

Axis (Å)

a: Value ±Error

b: Value ±Error

c: Value ±Error

α: Value ±Error

β: Value ±Error

γ: Value ±Error

Volume

Value ±Error

Axial Ratio

c/a: Value ±Error

a/b: Value ±Error

c/b: Value ±Error

Search Reset Tab Reset All Help

Range Input ▼

Global Operator ▼

The Crystallography tab displays four additional search tabs: *Crystal Data*, *Reduced Cell*, *Author's Cell*, and *Supercell/Subcell*. Refine your search by selecting filters based upon the structure of a material.

Search Window

Crystal Data

The screenshot displays the 'Search' window in Crystal Data software. The interface is organized into several sections:

- Subfile:** A tree view showing categories like 'Custom PDF Set', 'Alkaloid', 'Amino Acid, Peptide & Complex', 'Battery Material', 'Bioactive', 'No Subclass', 'Depressant', 'Narcotic', and 'Pesticide & Antimicrobial'.
- Environment:** Checkboxes for 'Ambient', 'Non-ambient', 'Temp.', 'Press.', 'Temp. & Press.', 'Atomic Coordinates', and 'Raw Diffraction Data'.
- Status:** Checkboxes for 'Primary', 'Alternate', and 'Deleted'.
- Quality Mark:** A list of quality indicators: Star, Good, Indexed, Calculated, Prototyping, Minimal Acceptable, Blank, and Low-Precision.
- Database:** Checkboxes for 'ICDD (00)', 'ICSD (01)', 'CSD (02)', 'NIST (03)', 'LPF (04)', and 'ICDD Crystal Data (05)'.
- Crystal System:** Checkboxes for 'Tridinic (Anorthic)', 'Rhombohedral', 'Monoclinic', 'Hexagonal', 'Orthorhombic', 'Cubic', and 'Tetragonal'.
- Crystal (Symmetry Allowed):** Checkboxes for 'Centrosymmetric', 'Non-centrosymmetric', 'Enantiomorphic', 'Pyro / Piezo (p)', 'Optical Activity', and 'Piezo (2nd Harm.)'.
- Space Group:** A dropdown menu is open, showing options: 'Space Group Symbol', 'Space Group Number', 'Aspect Symbol', 'Superspace Group Symbol', 'Contains Fragments', 'Contains Phrase', 'Exactly', and 'Not'.
- Unit Cell:** Input fields for 'a', 'b', 'c', 'α', 'β', 'γ', and 'c/b' with associated error bars.
- Physical Properties:** A section for 'AET' (Acoustic Emission Test) with input fields for 'AET' and 'Elements'.

Red arrows point from text boxes to specific filters in the 'Space Group' dropdown menu:

- From 'Filters based on the space group symbol according to nomenclature defined by the author.' to 'Space Group Symbol'.
- From 'Filters based on the superspace group symbol (for modulated structures only).' to 'Superspace Group Symbol'.
- From 'Filters based on the international space group numbers (1-230).' to 'Space Group Number'.
- From 'Filters based on the aspect symbol according to nomenclature defined by the author.' to 'Aspect Symbol'.

Filters based on the space group symbol according to nomenclature defined by the author.

Filters based on the superspace group symbol (for modulated structures only).

Filters based on the international space group numbers (1-230).

Filters based on the aspect symbol according to nomenclature defined by the author.

Search Window

Crystal Data

Search

Subfile ▼

- Custom PDF Set
- Alkaloid
- Amino Acid, Peptide & Complex
- Battery Material
- Bioactive
 - No Subclass
 - Depressant
 - Narcotic
 - Pesticide & Antimicrobial

Environment

☐ Ambient

☐ Non-ambient

☐ Temp. ☐ Press.

☐ Temp. & Press.

☐ Atomic Coordinates

☐ Raw Diffraction Data

Status

☒ Primary

☒ Alternate

☐ Deleted

Quality Mark

- Star
- Good
- Indexed
- Calculated
- Prototyping
- Minimal Acceptable
- Blank
- Low-Precision

Database

☐ ICDD (00)

☐ ICSD (01)

☐ CSD (02)

☐ NIST (03)

☐ LPF (04)

☐ ICDD Crystal Data (05)

Periodic Table

Formula/Name

Classifications

Crystallography

Modulated

Diffraction

Physical Properties

Reference

Comments

Crystal System

☐ Triclinic (Anorthic) ☐ Rhombohedral

☐ Monoclinic ☐ Hexagonal

☐ Orthorhombic ☐ Cubic

☐ Tetragonal

Crystal (Symmetry Allowed) ▼

☐ Centrosymmetric

☐ Non-centrosymmetric:

☐ Enantiomorphic ☐ Pyro / Piezo (p)

☐ Optical Activity ☐ Piezo (2nd Harm.)

AET

AET

Elements

Space Group ▼

Space Group Symbol

Crystal Data Reduced Cell Author's Unit Cell Supercell/Subcell

Axis (Å)

a: Value ±Error

b: Value ±Error

c: Value ±Error

Volume

Value ±Error

Axial Ratio

c/a: Value ±Error

c/b: Value ±Error

Filters based on the lengths of the three axes of the crystal data.

Filters based on the volume of the crystal data.

Search Reset Tab Reset All Help

Range Input ▼

Global Operator ▼

Search Window

Reduced Cell

Search

Subfile ▼

- Custom PDF Set
 - Alkaloid
 - Amino Acid, Peptide & Complex
 - Battery Material
 - Bioactive
 - No Subclass
 - Depressant
 - Narcotic
 - Pesticide & Antimicrobial

Environment

☐ Ambient

☐ Non-ambient

☐ Temp. ☐ Press.

☐ Temp. & Press.

☐ Atomic Coordinates

☐ Raw Diffraction Data

Status

☒ Primary

☒ Alternate

☐ Deleted

Quality Mark

- Star
- Good
- Indexed
- Calculated
- Prototyping
- Minimal Acceptable
- Blank
- Low-Precision

Database

☐ ICDD (00)

☐ ICSD (01)

☐ CSD (02)

☐ NIST (03)

☐ LPF (04)

☐ ICDD Crystal Data (05)

Periodic Table

Formula/Name

Classifications

Crystallography

Modulated

Diffraction

Physical Properties

Reference

Comments

Crystal System

☐ Tridinic (Anorthic) ☐ Rhombohedral

☐ Monoclinic ☐ Hexagonal

☐ Orthorhombic ☐ Cubic

☐ Tetragonal

Crystal (Symmetry Allowed) ▼

☐ Centrosymmetric

☐ Non-centrosymmetric:

☐ Enantiomorphic ☐ Pyro / Piezo (p)

☐ Optical Activity ☐ Piezo (2nd Harm.)

AET

AET

Elements

Space Group ▼

Space Group Symbol

Crystal Data Reduced Cell Author's Unit Cell Supercell/Subcell

Axis (Å)

a: Value ±Error

b: Value ±Error

c: Value ±Error

Volume

Value ±Error

Filters based on the lengths of the three axes of the reduced cell.

Filters based on the volume of the reduced cell.

Range Input ▼

Global Operator ▼

Search Reset Tab Reset All Help

ICDD[®]
INTERNATIONAL CENTER FOR DIFFRACTION DATA

ISO 9001:2015
QUALITY MANAGEMENT SYSTEM CERTIFIED
BY DEKRA
CERT. NO.
110409.01

The reduced cell is a unique, primitive cell based on the three shortest lattice translations.

Filters based on the volume of the reduced cell.

Filters based on the lengths of the three axes of the reduced cell.

Search Window

Author's Unit Cell

Search

Subfile ▼

- Custom PDF Set
- Alkaloid
- Amino Acid, Peptide & Complex
- Battery Material
- Bioactive
 - No Subclass
 - Depressant
 - Narcotic

Environment

- ☐ Ambient
- ☐ Non-ambient
 - ☐ Temp.
 - ☐ Press.
 - ☐ Temp. & Press.
- ☐ Atomic Coordinates

Status

- ☒ Primary
- ☒ Alternate
- ☐ Deleted

Quality Mark

- ☒ Star
- ☒ Good
- ☒ Indexed
- ☒ Calculated
- ☒ Prototyping
- ☒ Minimal Acceptable
- ☒ Bl
- ☒ Lo

Database

- ☐ ICDD (00)
- ☐ ICSD (01)
- ☐ CSD (02)
- ☐ NIST (03)
- ☐ LPE (04)
- ☐ (05)

Convert Cell

Crystal System: Triclinic (Anorthic) ▼

Bravais Lattice: Primitive ▼

☒ Convert to Crystal Data

☐ Convert to Reduced Cell

Convert Cancel

Formula/Name

Classifications

Crystallography

Modulated

Diffraction

Physical Properties

Reference

Comments

Space Group ▼

Space Group Symbol

Crystal Data Reduced Cell Author's Unit Cell Supercell/Subcell

Axis (Å) ▼

a: Value ±Error

b: Value ±Error

c: Value ±Error

α: Value ±Error

β: Value ±Error

γ: Value ±Error

Volume

Value ±Error

Molecular/f.u. Volume

Value ±Error

Axial Ratio

a/b: Value ±Error

c/b: Value ±Error

Search Reset Tab Reset All Help

Range Input ▼

Global Operator ▼

Convert Cell form used to convert Author's Unit Cell Axis/Volume data to Crystal or Reduced Cell Axis/Volume data for searching.

Filters based on the lengths of the three axes of the author's unit cell.

Filters based on the volume of the author's unit cell.

Search Window

Supercell/Subcell

This search uses derivative lattices (including superlattices and sublattices) generated from the given primary lattices. The volume of superlattices $|Q|$ can be between 1 and 9 and volume of sublattices $|X|$ can be changed from 1/1 to 1/9. Derivative matrices are generated based on the selected volumes. Multiplying derivative matrices by the primary lattices gives derivative lattices, which are then transformed to reduced lattices for searching.

The screenshot shows the ICDD Search Window interface. A red arrow points from the text box on the left to the 'Supercell/Subcell' tab in the 'Crystal Data' section. The interface includes several panels: 'Subfile' (Custom PDF Set, Alkaloid, Amino Acid, Peptide & Complex, Microbial), 'Environment' (Ambient, Non-ambient, Temp., Press., Temp. & Press., Atomic Coordinates, Raw Diffraction Data), 'Status' (Primary, Alternate, Deleted), 'Quality Mark' (Star, Good, Indexed, Calculated, Prototyping, Minimal Acceptable, Blank, Low-Precision), 'Database' (ICDD (00), ICSD (01), CSD (02), NIST (03), LPF (04), ICDD Crystal Data (05)), 'Crystal System' (Tridinic (Anorthic), Rhombohedral, Monoclinic, Hexagonal, Orthorhombic, Cubic, Tetragonal), 'Crystal (Symmetry Allowed)' (Centrosymmetric, Non-centrosymmetric: Enantiomorphic, Pyro / Piezo (p), Optical Activity, Piezo (2nd Harm.)), 'AET' (AET, Elements), 'Space Group' (Space Group Symbol), 'Crystal Data' (Crystal Data, Reduced Cell, Author's Unit Cell, Supercell/Subcell), 'Axis (Å)' (a, b, c, α, β, γ, Value, ±Error), and 'Range Input' (Global Operator). The 'Supercell/Subcell' tab is selected, showing 'Supercell' and 'Subcell' radio buttons, and 'Volume Ratio: 1 to 1'.

Search Window

Modulated

Search

Subfile ▼

- Custom PDF Set
- Alkaloid
- Amino Acid, Peptide & Complex
- Battery Material
- Bioactive
 - No Subclass
 - Depressant
 - Narcotic
 - Pesticide & Antimicrobial

Environment

- ☐ Ambient
- ☐ Non-ambient
 - ☐ Temp. ☐ Press.
 - ☐ Temp. & Press.
- ☐ Atomic Coordinates
- ☐ Raw Diffraction Data

Status

- ☒ Primary
- ☒ Alternate
- ☐ Deleted

Quality Mark

- ☒ Star
- ☒ Good
- ☐ Minimal Acceptable
- ☐ Blank
- ☐ Low-Precision

Database

- ☐ ICDD (00)
- ☐ ICSD (01)
- ☐ ICSD (02)
- ☐ ICSD (03)
- ☐ ICSD (04)
- ☐ ICSD (05)
- ☐ ICSD (06)
- ☐ ICSD (07)
- ☐ ICSD (08)
- ☐ ICSD (09)
- ☐ ICSD (10)
- ☐ ICSD (11)
- ☐ ICSD (12)
- ☐ ICSD (13)
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- ☐ ICSD (90)
- ☐ ICSD (91)
- ☐ ICSD (92)
- ☐ ICSD (93)
- ☐ ICSD (94)
- ☐ ICSD (95)
- ☐ ICSD (96)
- ☐ ICSD (97)
- ☐ ICSD (98)
- ☐ ICSD (99)

Periodic Table

Formula/Name

Classifications

Crystallography

Modulated

Diffraction

Physical Properties

Reference

Comments

Modulated Dimension

- ☐ 3 + 1d
- ☐ 3 + 2d
- ☐ 3 + 3d

Subsystems

- ☐ Modulated Structure (One Subsystem)
- ☐ Composite Structure (Multiple Subsystems)

Range Input ▼

Global Operator ▼

Filters based on the number of dimensions used to describe the modulation where "3 + 1d", "3 + 2d", "3 + 3d" indicate one, two, and three additional dimensions respectively.

Filters patterns based on the number of subsystems present in the structure. Composite structures have more than one subsystem.

Search Window

Diffraction

The screenshot shows the 'Search' window for diffraction data. It features several filter sections: 'Subfile' with a tree view including 'Custom PDF Set', 'Alkaloid', 'Amino Acid, Peptide & Complex', 'Battery Material', 'Bioactive' (expanded), 'No Subclass', 'Depressant', 'Narcotic', and 'Pesticide & Antimicrobial'; 'Environment' with checkboxes for 'Ambient', 'Non-ambient', 'Temp.', 'Press.', 'Temp. & Press.', 'Atomic Coordinates', and 'Raw Diffraction Data'; 'Status' with checkboxes for 'Primary', 'Alternate', and 'Deleted'; 'Quality Mark' with a list of markers like 'Star', 'Good', 'Indexed', 'Calculated', 'Prototyping', 'Minimal Acceptable', 'Blank', and 'Low-Precision'; and 'Database' with checkboxes for 'ICDD (00)', 'ICSD (01)', 'CSD (02)', 'NIST (03)', 'LPF (04)', and 'ICDD Crystal Data (05)'. Below these are input fields for 'Radiation' (X-ray/Electron or CW Neutron), 'Strong Line (Å)', 'Long Line (Å)', 'Reported Intensity' (Integrated or Peak), 'I/I-corundum', 'R-factor', 'Smith-Snyder Figure of Merit', 'Temperature of Data Collection (K)', and 'Pressure of Data Collection (GPa)'. A left sidebar contains a 'Periodic Table' and a list of filters: 'Formula/Name', 'Classifications', 'Crystallography', 'Modulated', 'Diffraction' (highlighted with a red arrow), 'Physical Properties', 'Reference', and 'Comments'. A bottom toolbar includes 'Search', 'Reset Tab', 'Reset All', 'Help', 'Range Input', and 'Global Operator'. Two red callout boxes provide additional context: one points to the 'Diffraction' filter, and the other points to the 'Smith-Snyder Figure of Merit' field.

Filters based on the ratio of the intensity of the strongest line of the pattern to the intensity of the strongest line of corundum in a 50/50 weight mixture.

Filters based on the SS/FOM. The figure of merit generally used is that reported by Smith & Snyder, which indicates the completeness & accuracy of measured interplanar spacings.

Search Window

Physical Properties

Search

Subfile

- Custom PDF Set
 - Alkaloid
 - Amino Acid, Peptide & Complex
 - Battery Material
 - Bioactive
 - No Subclass
 - Depressant
 - Narcotic
 - Pesticide & Antimicrobial

Environment

- ☐ Ambient
- ☐ Non-ambient
 - ☐ Temp.
 - ☐ Press.
 - ☐ Temp. & Press.
- ☐ Atomic Coordinates
- ☐ Raw Diffraction Data

Status

- ☒ Primary
- ☒ Alternate
- ☐ Deleted

Quality Mark

- Star
- Good
- Indexed
- Calculated
- Prototyping
- Minimal Acceptable
- Blank
- Low-Precision

Database

- ☐ ICDD (00)
- ☐ ICSD (01)
- ☐ CSD (02)
- ☐ NIST (03)
- ☐ LPF (04)
- ☐ ICDD Crystal Data (05)

Periodic Table

Formula/Name

Classifications

Crystallography

Modulated

Diffraction

Physical Properties

Reference

Comments

Melting Point (K)

Value

±Error

Density (g/cm³)

Value

±Error

☒ Measured Density ☒ Calculated Density ☒ Structural Density

Color

- Black
- Blue
- Brown
- Color Missing
- Colorless
- Grav

☐ Property Sheet ☐ Topology Data

Topology

Range Input

Global Operator

Filters based on the measured, calculated or structural density of the material.

- ☒ Kelvin (K)
- ☐ Celsius (°C)
- ☐ Fahrenheit (°F)
- ☐ Not

Filters based on the melting point. Specify degrees Celsius, Kelvin or Fahrenheit by selecting from the drop down menu.

Search Window

References

Search

Subfile ▼

- Custom PDF Set
- Alkaloid
- Amino Acid, Peptide & Complex
- Battery Material
- Bioactive
 - No Subclass
 - Depressant
 - Narcotic
 - Pesticide & Antimicrobial

Environment

- ☐ Ambient
- ☐ Non-ambient
 - ☐ Temp. ☐ Press.
 - ☐ Temp. & Press.
- ☐ Atomic Coordinates
- ☐ Raw Diffraction Data

Periodic Table

Formula/Name

Classifications

Crystallography

Modulated

Diffraction

Physical Properties

Reference

Comments

Search All

Author ▼

Title ▼

Publication ▼

Year

DOI

Volume ▼

Journal/Patent

CODEN

Contains Fragments

Contains Phrase

Exactly

Not

Range Input ▼

Global Operator ▼

Search Reset Tab Reset All Help

ISO 9001:2015
QUALITY MANAGEMENT SYSTEM CERTIFIED
BY DEKRA
CERT. NO. 110409.01

Refine your search by selecting filters based upon the journal references of a material.

Select filters by **DOI**, **Title** (article title), **Author** (author name), **Journal/Patent**, **Coden** (journal coden), **Volume**, and **Year** (publication year).

Search Window

Comments

Search

Subfile ▼

- Custom PDF Set
 - Alkaloid
 - Amino Acid, Peptide & Complex
 - Battery Material
 - Bioactive
 - No Subclass
 - Depressant
 - Narcotic

Environment

☐ Ambient

☐ Non-ambient

☐ Temp. ☐ Press.

☐ Temp. & Press.

☐ Atomic Coordinates

☐ Raw Diffraction Data

Status

☒ Primary

☒ Alternate

☐ Deleted

Quality Mark

☒ Star

☒ Good

☐ Indexed

☐ Calculate

☐ Prototyp

☐ Minimal A

☐ Blank

Database

☐ ICDD (00)

☐ ICSD (01)

☐ CSD (02)

☐ NIST (03)

☐ LPF (04)

☐ ICDD Crystal Data (05)

Periodic Table

Formula/Name

Classifications

Crystallography

Modulated

Diffraction

Physical Properties

Reference

Comments

Database Comments ▼

Filter based on the text contained in comments.

Absolute Configuration:

Additional Diffraction Lines:

Additional Patterns:

Analysis:

ANX:

Atomic Position:

Bioactivity:

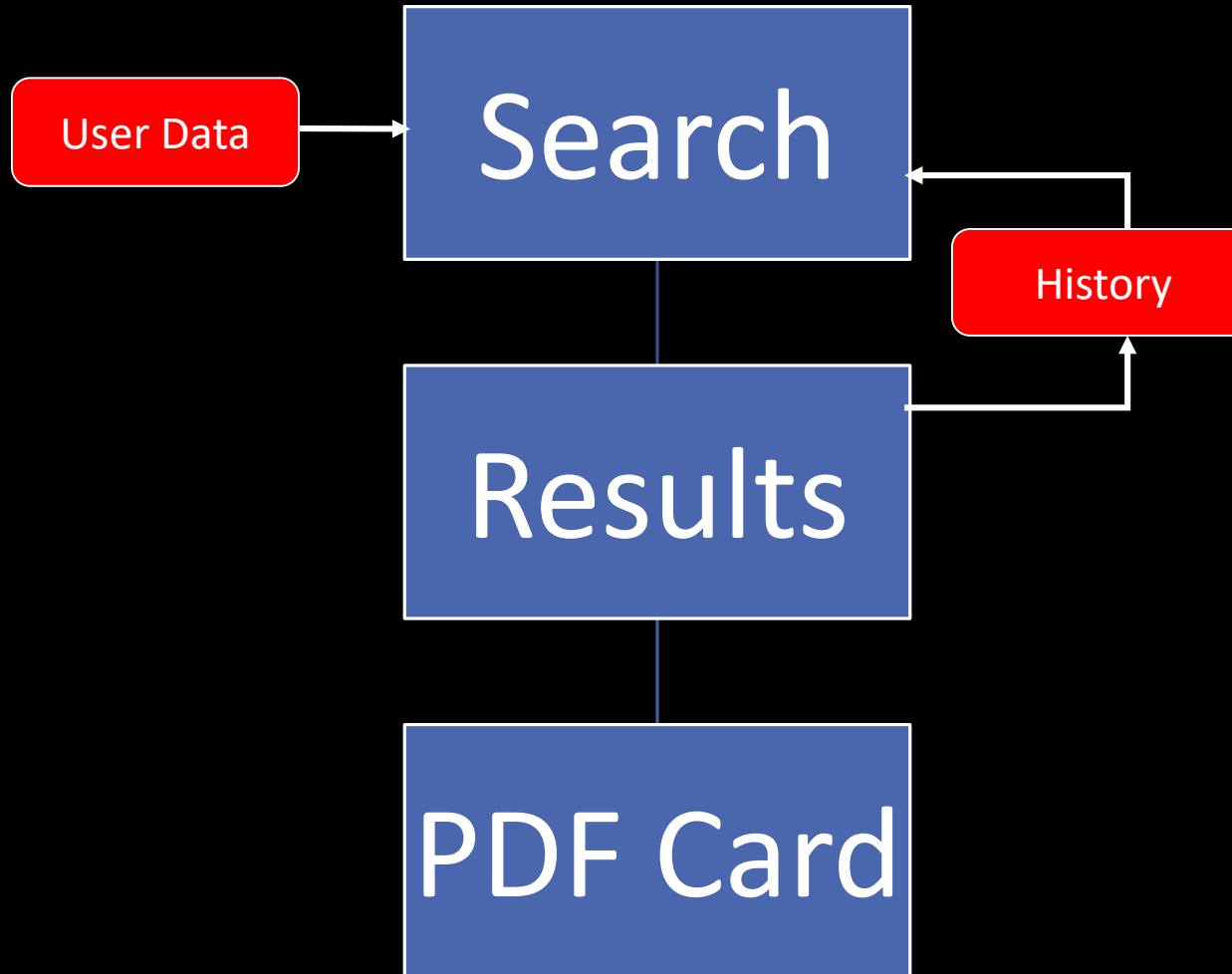
Boiling Point:

Range Input ▼

Global Operator ▼

Search Reset Tab Reset All Help

Data Mining Basics



- Select your filter criteria
- Make use of logical Boolean operators, text and list boxes
- Search
- Review results
- Refine search with additional criteria

Note: Selected search criteria is highlighted in red to keep track of your selections.

Search Example

Select Elements in Periodic Table

Search Subfile

Environment: ☐ Ambient, ☐ Non-ambient, ☐ Temp., ☐ Press., ☐ Temp. & Press., ☐ Atomic Coordinates, ☐ Raw Diffraction Data

Status: ☒ Primary, ☒ Alternate, ☐ Deleted

Quality Mark: ☒ Star, ☐ Good, ☐ Indexed, ☐ Calculated, ☐ Prototype, ☐ Minimal, ☐ Deleted

Database: ☐ ICDD (00), ☐ ICSD (01), ☐ CSD (02), ☐ NIST (03), ☐ LPF (04), ☐ ICDD Crystal Data (05)

Periodic Table: 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18

Formula/Name: 1 H, 2 Li, 3 Be, 4 Na, 5 Mg

Classifications: 1 H, 2 Li, 3 Be, 4 Na, 5 Mg

Crystallography: 1 H, 2 Li, 3 Be, 4 Na, 5 Mg

Modulated: 1 H, 2 Li, 3 Be, 4 Na, 5 Mg

Boolean: ☒ Boolean, ☐ Yes/No/Maybe, ☐ Composition List

Grouping: ☒ And, ☐ Or, ☐ Not, ☐ Only, ☐ Just

(Pt And Cl)

Select Compound Name

Search Subfile

Environment: ☐ Ambient, ☐ Non-ambient, ☐ Temp., ☐ Press., ☐ Temp. & Press., ☐ Atomic Coordinates, ☐ Raw Diffraction Data

Status: ☒ Primary, ☒ Alternate, ☐ Deleted

Quality Mark: ☒ Star, ☐ Good, ☐ Indexed, ☐ Calculated, ☐ Prototype, ☐ Minimal, ☐ Deleted

Database: ☐ ICDD (00), ☐ ICSD (01), ☐ CSD (02), ☐ NIST (03), ☐ LPF (04)

Formula/Name:

Classifications:

Crystallography:

Modulated:

Diffraction:

Physical Properties:

Reference:

Comments:

Range Input:

Global Operator:

Select Space Group

Search Subfile

Environment: ☐ Ambient, ☐ Non-ambient, ☐ Temp., ☐ Press., ☐ Temp. & Press., ☐ Atomic Coordinates, ☐ Raw Diffraction Data

Status: ☒ Primary, ☒ Alternate, ☐ Deleted

Quality Mark: ☒ Star, ☐ Good, ☐ Indexed, ☐ Calculated, ☐ Prototype, ☐ Minimal, ☐ Deleted

Database: ☐ ICDD (00), ☐ ICSD (01), ☐ CSD (02), ☐ NIST (03), ☐ LPF (04), ☐ ICDD Crystal Data

Periodic Table: ☐ Periodic Table, ☐ Formula/Name, ☐ Classifications, ☐ Crystallography, ☐ Modulated, ☐ Diffraction, ☐ Physical Properties, ☐ Reference, ☐ Comments

Crystal System: ☐ Triclinic (Anorthic), ☐ Rhombohedral, ☐ Monoclinic, ☐ Hexagonal, ☐ Orthorhombic, ☐ Cubic, ☐ Tetragonal

Crystal (Symmetry Allowed): ☐ Centrosymmetric, ☐ Non-centrosymmetric: ☐ Enantiomorphic, ☐ Pyro / Piezo (p), ☐ Optical Activity, ☐ Piezo (2nd Harm.)

AET:

Space Group:

Crystal Data:

Axis:

Supercell: ☒ Supercell, ☐ Subcell

Search:

Selected filters highlighted in red

Search Results

Results - 8 of 316,820

File Fields Tools Help

Open PDF Card Simulated Profile My Defaults

PDF #	QM	Chemical Formula	I ₀ /I _c	Compound Name	D1 (Å)	D2 (Å)	D3 (Å)	SYS
00-009-0367	I	K ₂ PtCl ₄		Potassium Platinum Chloride	6.940	3.160	3.550	T
01-070-1408	I	K ₂ PtCl ₄	8.81	Potassium Platinum Chloride	7.027500	3.182740	3.569850	T
01-073-1506	I	K ₂ (PtCl ₄)	8.65	Potassium Platinum Chloride	6.990000	3.169250	3.555730	T
01-074-1616	I	K ₂ (Pt(CN) ₄)Cl _{0.32} (H ₂ O) _{2.6}	9.02	Potassium Platinum Chloride Cyanide Hydrate	9.866000	4.412210	6.976320	T
01-076-2175	S	K ₂ (PtCl ₄)	8.79	Potassium Platinum Chloride	7.024000	3.183270	3.571050	T
01-077-1947	S	K ₂ PtCl ₄	8.79	Potassium Platinum Chloride	7.023000	3.183810	3.571940	T
01-080-0953	S	K ₂ (PtCl ₄)	8.85	Potassium Platinum Chloride	6.996100	3.159080	3.540590	T
01-080-0954	S	K ₂ (PtCl ₄)	8.84	Potassium Platinum Chloride	6.981300	3.156210	3.538480	T

[[Pt And Cl]] And [Any Name Contains Fragments 'Potassium' And 'Platinum' And 'Chloride'] And [Space Group Symbol Contains Phrase 'P4/mmm'] And [Status (Primary, Alternate)]

Search Filters

Search Results

Double-click on a PDF number to view the entire PDF Card.



Preferences Module

Open the Preferences Module to select which data fields you would like to display in your results.

You can also select the order in which the data fields are displayed.

Set ▼ My Defaults ▼

Available Fields

- ICDD Filters
- Formula/Name
- Classifications
- Crystallography
- Diffraction
- Physical Properties
- Reference
- Comments

Selected Fields

- PDF #
- QM
- Chemical Formula
- I/Ic
- Compound Name
- D1 (Å)
- D2 (Å)
- D3 (Å)
- SYS

☐ Include Deleted Patterns

Reset OK Cancel Apply Help

Add data fields to selected list

Order the data fields in the selected list

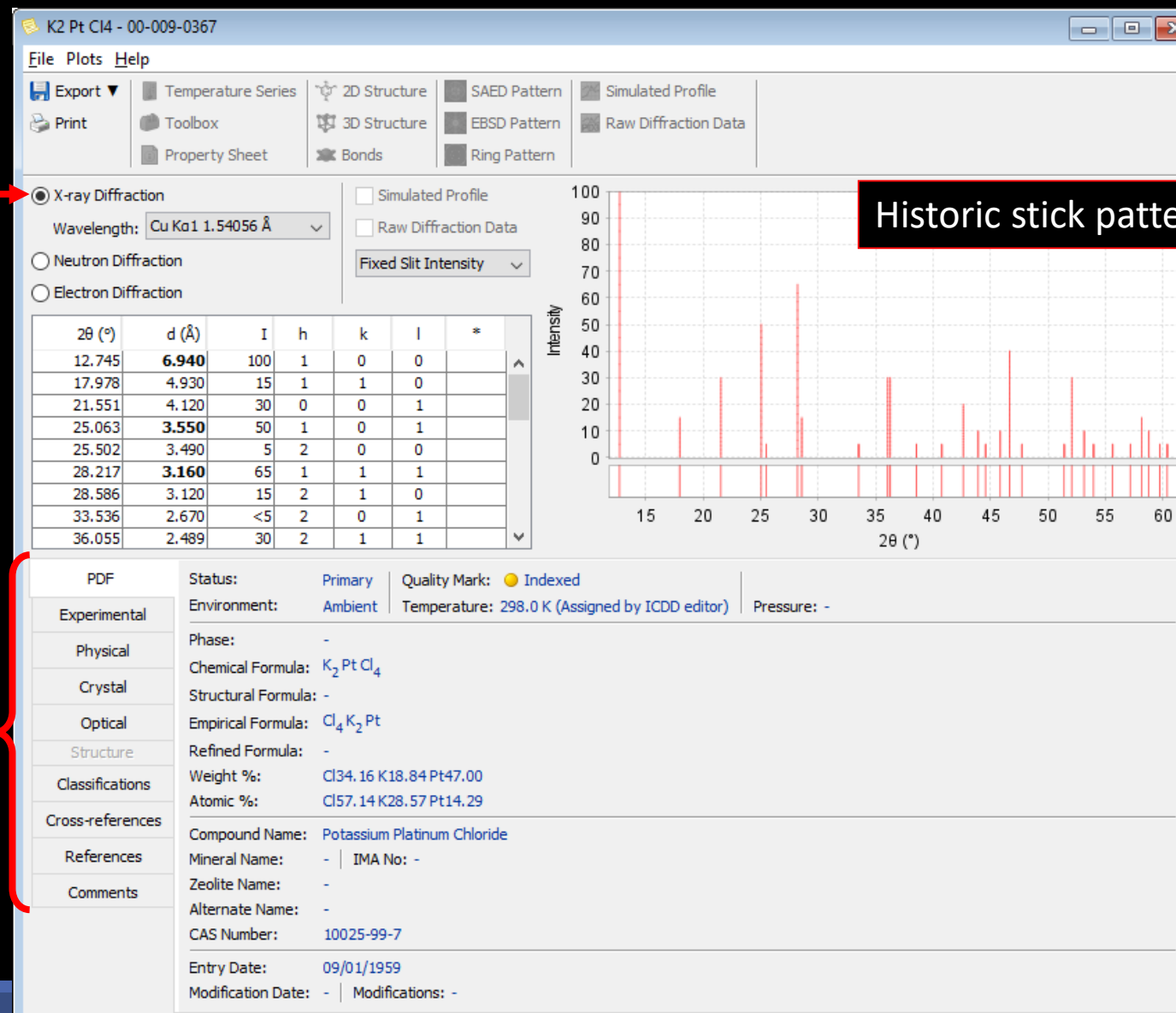
Remove data fields from the selected list

PDF Data Card

Choose
equipment
factors

Historic stick pattern

Tabular view of reported data



PDF Data Card

Results - 8 of 316,820

File Fields Tools Help

Open PDF Card Simulated Profile

PDF #	QM	Chemical Formula	I/Ic	Compound Name
00-009-0367	I	K_2PtCl_4		Potassium Platinum Chloride
01-070-1408	I	K_2PtCl_4	8.81	Potassium Platinum Chloride
01-073-1506	I	$K_2(PtCl_4)$	8.65	Potassium Platinum Chloride
01-074-1616	I	$K_2(Pt(CN)_4)Cl_{0.32}(H_2O)_{2.6}$	9.02	Potassium Platinum Chloride Hydrate
01-076-2175	I	$K_2(PtCl_4)$	8.79	Potassium Platinum Chloride
01-077-1947	I	$K_2(PtCl_4)$	8.79	Potassium Platinum Chloride
01-080-0953	I	$K_2(PtCl_4)$	8.85	Potassium Platinum Chloride
01-080-0954	I	$K_2(PtCl_4)$	8.84	Potassium Platinum Chloride

Open PDF Card

Tools/Simulations

Add to Custom PDF Set...

Remove from Custom PDF Set...

Copy PDF #

Remove Rows

Hold the Ctrl key, then select PDF cards. Right click mouse, select Open PDF Card.

Open multiple PDF Cards.

K2 Pt Cl4 - 00-009-0367

File Plots Help

Export Print

Temperature Series 2D Structure SAED Pattern Simulated Profile

Toolbox 3D Structure EBSD Pattern Raw Diffraction Data

Property Sheet Bonds Ring Pattern

X-ray Diffraction

Wavelength: Cu K α 1.54056 Å

Simulated Profile

Raw Diffraction Data

Fixed Slit Intensity

Intensity

2 θ (°)

PDF

Status: Primary Quality Mark: Star

Environment: Ambient Temperature: 298.0 K (Assigned by ICDD editor) Pressure: -

Phase: -

Chemical Formula: $K_2(PtCl_4)$

Structural Formula: -

Empirical Formula: Cl_4K_2Pt

Refined Formula: -

Weight %: Cl34.16 K18.84 Pt47.00

Atomic %: Cl57.14 K28.57 Pt14.29

Compound Name: Potassium Platinum Chloride

Mineral Name: - IMA No: -

Zeolite Name: -

Alternate Name: potassium tetrachloroplatinate(II)

CAS Number: -

Entry Date: 09/01/1998

Modification Date: 09/01/2020 Modifications: Update



Thank you for viewing our tutorial.
Additional tutorials are available at the ICDD® website.
www.icdd.com

International Centre for Diffraction Data®
12 Campus Boulevard
Newtown Square, PA 19073
Phone: 610.325.9814
Toll Free Number in US & Canada: 866.378.0331
Fax: 610.325.9823