PDF-2 Tools and Searches







PDF-2 2022

The PDF-2 2022 database is powered by our integrated search display software. PDF-2 2022 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 2022.

| | | PDF-2 2022 | | | | | | | | | | | | | | | | | | | | |
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| | | Crystallography | 3 | ¹¹ Na | Mg | | | | | | | | | | | ¹³ AI | ¹⁴ Si | ¹⁵ P | ¹⁶ S | ¹⁷ CI | ¹⁸ Ar | |
| mary S | Search | Modulated | 4 | ¹⁹ K | 20 Ca | 21 Sc | ²² Ti | ²³ V | ²⁴ Cr | ²⁵ Mn | Fe | ²⁷ Co | 28 Ni | 29 Cu | ³⁰ Zn | Ga | ³² Ge | 33 As | ³⁴ Se | ³⁵ Br | ³⁶ Kr | |
| nu | | Diffraction | 5 | ³⁷ Rb | ³⁸ Sr | ³⁹ Y | ⁴⁰ Zr | ⁴¹ Nb | Mo | 43 Tc | [#] Ru | ⁴⁵ Rh | ⁴⁶ Pd | 47 Ag | 48 Cd | ⁴⁹ In | ⁵⁰ Sn | 51 Sb | 52 Te | 53 | ⁵⁴ Xe | |
| | | Physical Properties | 6 | 55 Cs | ⁵⁶ Ba | | 72 Hf | 73 Ta | ⁷⁴ W | 75 Re | ⁷⁶ Os | 77 Ir | 78 Pt | ⁷⁹ Au | ® Hg | ⁸¹ TI | ⁸² Pb | Bi | Po | ⁸⁵ At | ⁸⁶ Rn | |
| | | Reference | 7 | ⁸⁷ Fr | ⁸⁸ Ra | | 104 Rf | 105 Db | 106 Sg | 107 Bh | 108 Hs | 109 Mt | 110 Ds | ¹¹¹ Rg | ¹¹² Cn | ¹¹³ Nh | ¹¹⁴ FI | ¹¹⁵ Mc | Lv | Ts | ¹¹⁸ Og | |
| | | Comments | La | | | 57 La | Ce | ⁵⁹ Pr | 60 Nd | ⁶¹ Pm | 52 Sm | 63 Eu | 64 Gd | 55 Tb | 66 Dy | б7 Но | 68 Er | ⁶⁹ Tm | 70 Yb | ⁷¹ Lu | | |
| | | | Ac | | | ⁸⁹ Ac | ⁹⁰ Th | 91 Pa | 92 U | 93 Np | 94 Pu | ⁹⁵ Am | ⁹⁶ Cm | 97 Bk | 98 Cf | 99 Es | Fm | ¹⁰¹ Md | ¹⁰² No | Lr | | \$ |
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Getting Started







Getting Started







Tool Bar



Quick Navigation Icons



Open a PDF Card



Select Preferences Module



Open Search Window



Open History Window







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 | | | | | | | | | | | | | | | | | | | | • × |
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| Classifications | 2 | ³ Li | Be | | | | | Switc | h to <i>Na</i> |) | | | | 5 B | ° C | 7 N | ° | 9 F | ¹⁰ Ne | |
| Crystallography | 3 | ¹¹ Na | ¹² Mg | | | | | | | | | | | ¹³ AI | ¹⁴ Si | ¹⁵ P | ¹⁶ S | ¹⁷ CI | ¹⁸ Ar | |
| Modulated | 4 | ¹⁹ K | 20 Ca | 21 Sc | ²² Ti | ²³ V | ²⁴ Cr | ²⁵ Mn | Fe | 27 Co | 28 Ni | ²⁹ Cu | 30 Zn | ³¹ Ga | 32 Ge | 33 As | ³⁴ Se | ³⁵ Br | ³⁶ Kr | |
| Diffraction | 5 | 37 Rb | ³⁸ Sr | ³⁹ Y | ⁴⁰ Zr | ⁴¹ Nb | Mo | 43 Tc | ^{⁴⁴} Ru | ⁴⁵ Rh | Pd | 47 Ag | ⁴⁸ Cd | ⁴⁹ In | 50 Sn | 51 Sb | 52 Te | 23 | ⁵⁴ Xe | |
| Physical Properties | 6 | 55 Cs | 56 Ba | | ⁷² Hf | 73 Ta | ⁷⁴ W | 75 Re | ⁷⁶ Os | "" Ir | 78 Pt | Au | ® Hg | ⁸¹ TI | ⁸² Pb | ⁸³ Bi | 84 Po | 85 At | ⁸⁶ Rn | |
| Reference | 7 | ⁸⁷ Fr | Ra | | ¹⁰⁴ Rf | 105 Db | 106 Sg | 107 Bh | ¹⁰⁸ Hs | 109 Mt | 110 Ds | Rg | 112 Cn | 113 Nh | ¹¹⁴ FI | ¹¹⁵ Mc | 116 Lv | 117 Ts | ¹¹⁸ Og | |
| Comments | La | | | 57 La | ⁵⁸ Ce | ⁵⁹ Pr | 60 Nd | ⁶¹ Pm | ⁶² Sm | 63 Eu | 64 Gd | 5 Tb | ⁶⁶ Dy | 67 Ho | ⁶⁸ Er | ⁶⁹ Tm | ⁷⁰ Yb | ⁷¹ Lu | | |
| | Ac | | | ⁸⁹ Ac | ⁹⁰ Th | 91 Pa | 92 U | 93 Np | ⁹⁴ Pu | 95 Am | ⁹⁶ Cm | 97 Bk | 98 Cf | 99 Es | ¹⁰⁰ Fm | ¹⁰¹ Md | ¹⁰² No | ¹⁰³ Lr | | \$ |
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Search Window Subfiles/Database Filters







Search Window Subfiles/Database 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

| Search | | | | | | | | | | | | | | | | | Dof | n 0 0 | | | rch by colocting filters based |
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| Crystallography | 3 | ¹¹ Na | ¹² Mg | OOr | ily O J | ust | |) And | ⊖ Or ∣ | | | | Ĵ | 13 AI | ¹⁴ Si | 15 P | gro | ups | usin | ig <mark>A</mark> r | nd & Or. |
| Modulated | 4 | ¹⁹ K | 20 Ca | 21 Sc | ²² Ti | ²³ V | ²⁴ Cr | 25 Mn | ²⁶ Fe | 27 Co | 28 Ni | ²⁹ Cu | 30 Zn | ³¹ Ga | ³² Ge | ³³ As | зя Se | ³⁵ Br | ³⁶ Kr | | |
| Diffraction | 5 | 37 Rb | ³⁸ Sr | ³⁹ Y | ⁴⁰ Zr | ⁴¹ Nb | 42 Mo | 43 Tc | ^₄ Ru | ⁴⁵ Rh | Pd | 47 Ag | ⁴⁸ Cd | ⁴⁹ In | 50 Sn | 51 Sb | 52 Te | 53 | ⁵⁴ Xe | | |
| Physical Properties | 6 | 55 Cs | 56 Ba | | 72 Hf | 73 Ta | ⁷⁴ W | 75 Re | ⁷⁶ Os | " Ir | 78 Pt | ⁷⁹ Au | ⁸⁰ Hg | ⁸¹ TI | Pb | Bi | ⁸⁴ Po | 85 At | ⁸⁶ Rn | | |
| Reference | 7 | ⁸⁷ Fr | Ra | | ¹⁰⁴ Rf | 105 Db | 106 Sg | 107 Bh | ¹⁰⁸ Hs | 109 Mt | 110 Ds | ¹¹¹ Rg | ¹¹² Cn | ¹¹³ Nh | ¹¹⁴ FI | ¹¹⁵ Mc | 116 LV | 117 Ts | 118 Og | | |
| Comments | La | | | 57 La | 58 Ce | ⁵⁹ Pr | 60 Nd | ⁶¹ Pm | ⁶² Sm | ⁶³ Еu | 64 Gd | 55 Tb | 66 Dy | 67 Ho | 68 Er | ⁶⁹ Tm | 70 Yb | ⁷¹ Lu | | | |
| | Ac | | | ⁸⁹ Ac | ⁹⁰ Th | 91 Pa | 92 U | 93 Np | 94 Pu | 95 Am | ⁹⁶ Cm | 97 Bk | 98 Cf | 99 Es | ¹⁰⁰ Fm | ¹⁰¹ Md | ¹⁰² No | ¹⁰³ Lr | | \$ | |
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BY DEKRA CERT. NO.



Periodic Table Filters







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.

Search

Alkaloid

🚨 Custom PDF Set

Battery Material

Comments

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Global Operator -

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).





Formula/Name

Any Formula

Exactly

Not



Formula/Name



Classifications





Pearson Symbol Code





Crystallography

| Search | | | | | | | |
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Crystal Data





Crystal Data

| Search | | | | | | | |
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| Periodic Table | Crystal System | | Crystal (Symmet | ry Allowed) 🗸 | AET | | |
| Formula/Name | Triclinic (Anorth | nic) 🗆 Rhombohedra | al 🗆 Centrosymmet | tric | AET | | |
| Classifications | Monoclinic | Hexagonal | Non-centrosyr | nmetric: | Eleme | ents | |
| Classifications | Orthorhombic | 🗆 Cubic | Enantiomor | phic 🗆 Pyro / | Piezo (p) | | |
| Crystallography | Tetragonal | | Optical Activ | vity 🗌 Piezo (| (2nd Harm.) | | |
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| Diffraction | Space Group Sym | bol | | | | | |
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Search Window **Reduced Cell**

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| hortest lattice ranslations. Reference Comments | Crystal Data Reduced Cell Author Axis (Å) a: Value ±Error a: b: Value ±Error β: c: Value ±Error γ: c: Value ±Error γ: Filters based on the lengths of the len | 's Unit Cell Supercell/Supercelll/Supercell/Supercell/Supercelll/Supercell/Super | ubcell Volum Value Filte | e (Å ³) ±Error rs based on the volume of the | e reduced cell. |
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150 9001:2015 QUALITY MANAGEMENT SYSTEM CERTIFIED

BY DEKRA

Author's Unit Cell

| Search | | | | | | |
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Supercell/Subcell





Modulated



Diffraction

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| | Custom PDF Se Alkaloid Amino Acid, Peptic | ♥ Subfile ▼ t de & Complex | Environment Ambient Non-ambient | ✓ Status☑ Primary☑ Alternate | ☆ Quality Mark ♀ Star ♀ Blank ♀ Good ♀ Low-Precision | Database ICDD (00) ICSD (01) |
| | Battery MaterialBioactiveNo SubclassDepressantNarcoticPesticide & AntiPsychotropicStimulant | microbial | Temp. Press. Temp. & Press. Atomic Coordinates Raw Diffraction Data | Deleted | Indexed Hypothetical Calculated Prototyping Minimal Acceptable | CSD (02) INIST (03) LPF (04) ICDD Crystal Data (05) |
| | Periodic Table | | Radiation: X- | ray/Electron | CW Neutron | |
| ers based or ratio of th nsity of th | on mula/Name ne ssifications | Strong Line (Å) ▼ Value ±Error ☑ D1 ☑ D2 ☑ D3 | | Long Valu ☑ L1 | Line (Å) ▼ te ±Error ☑ L2 ☑ L3 | |
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Physical Properties

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| Periodic Table sed on nula/Name sured, sifications al density tallography aterial. | Melting Point (K) ▼ Value ±Error Density (g/cm³) ▼ Value ±Error ✓ Measured Density ☑ Calculated Density Property Sheet Topology Date | ensity ⊡ Structural Den | isity | Color Black Blue Brown Color Missing Colorless | | Kelvin (K) Celsius (°C) Fahrenheit (°F) Not Filters based on the melting point |
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Search Window References

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| Periodic Table Formula/Name | Author 👻 | | coden), Volume, a (publication year) | and Year | |
| Classifications | Title 🗸 | | | | |
| Crystallography | | | | ٦ | |
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Comments

| Search | | | | | | | - • • |
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| Custom PDF Se Alkaloid Mino Acid, Pepti Battery Material Bioactive No Subclass Depressant Narcotic Pesticide & Anti Psychotropic Stimulant | ♥ Subfile ▼ t de & Complex microbial | ^ [| Environment Ambient Non-ambient Temp. Press. Temp. & Press. Atomic Coordinates Raw Diffraction Data | ✓ Status ☑ Primary ☑ Alternate □ Deleted □ | ♀ Q ♀ Star ♀ Good ♀ Indexed ♀ Calculate ♀ Prototyp ♀ Minimal | Puality Mark Blank Cow-Precision I Characteristical I Characteristical | 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 ▼ Absolute Configuration: Additional Diffraction Lines: Additional Patterns: Analysis: ANX: Atomic Position: Bioactivity: Boiling Point: | | Filter | based on the | text contain | ed in comments. | |
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| PDF # QM | Chemical Formula | I/Ic | Compound Name | D1 (Å) | D2 (Å) | D3 (Å) | SYS | | | | |
| 00-009-0367 • 1 | K ₂ Pt Cl ₄ | | Search Results | 6.940 | 3.160 | 3.550 | т | | | | |
| 01-070-1408 • 1 | K ₂ Pt Cl ₄ | 8.81 | Potassium Plaunum Chloride | 7.027500 | 3.182740 | 3.569850 | т | | | | |
| 01-073-1506 • 1 | K ₂ (Pt Cl ₄) | 8.65 | Potassium Platinum Chloride | 6.990000 | 3.169250 | 3.555730 | т | | | | |
| 01-074-1616 • 1 | K ₂ (Pt (C N) ₄) | 9.02 | Potassium Platinum Chloride Cyanide Hydrate | 9.866000 | 4.412210 | 6.976320 | т | | | | |
| 01-076-2175 • 9 | 5 K ₂ (Pt Cl ₄) | 8.79 | Potassium Platinum Chloride | 7.024000 | 3.183270 | 3.571050 | т | | | | |
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| 01-080-0953 • 9 | 5 K ₂ (Pt Cl ₄) | 8.85 | Potassium Platinum Chloride | 6.996100 | 3.159080 | 3.540590 | т | | | | |
| 01-080-0954 • S K ₂ (Pt Cl ₄) 8.84 Potassium Platinum Chloride 6.981300 3.156210 3.538480 T | | | | | | | | | | | |
| [(Pt And Cl)] And Symbol Contains F | [Any Name Contains Fragm Phrase 'P4/mmm'] And [Exc | nents 'F clude D | Potassium' A Double- Deleted/Hypo | click on DF Caro | a PDF r | number | to vie | | | | |













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| 01-073-1506 • I K ₂ (Pt Cl ₄) 8.65 Potassium Platin Chloride | 12.745 Wavelength Property Sheet Bonds Ring Pattern 21.551 • Neutron Di • X-ray Diffraction • Simulated Profile 1,000 |
| 01-074-1616 • I K ₂ (Pt (C N) ₄) 9.02 Potassium Platin Hydrate | 25.003 ○ Reduction Dit 25.003 ○ Electron Dit 28.586 20 (°) 33.536 20 (°) 36.055 12.586 |
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| ck mouse, lect Open | References Classificatii Thysical Chemical Formula: K2 (Pt Cl4) Comments Cross-refere Structural Formula: - Structural Formula: - Reference Comment Cross-refere Refined Formula: - Comment Comment Cross-refere Refined Formula: - Comment Comment Coss-references Classifications Reference Comment Classifications Refined Formula: - References Comment Classifications References References References Common Name: Distructure |
| | Comments 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 |





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