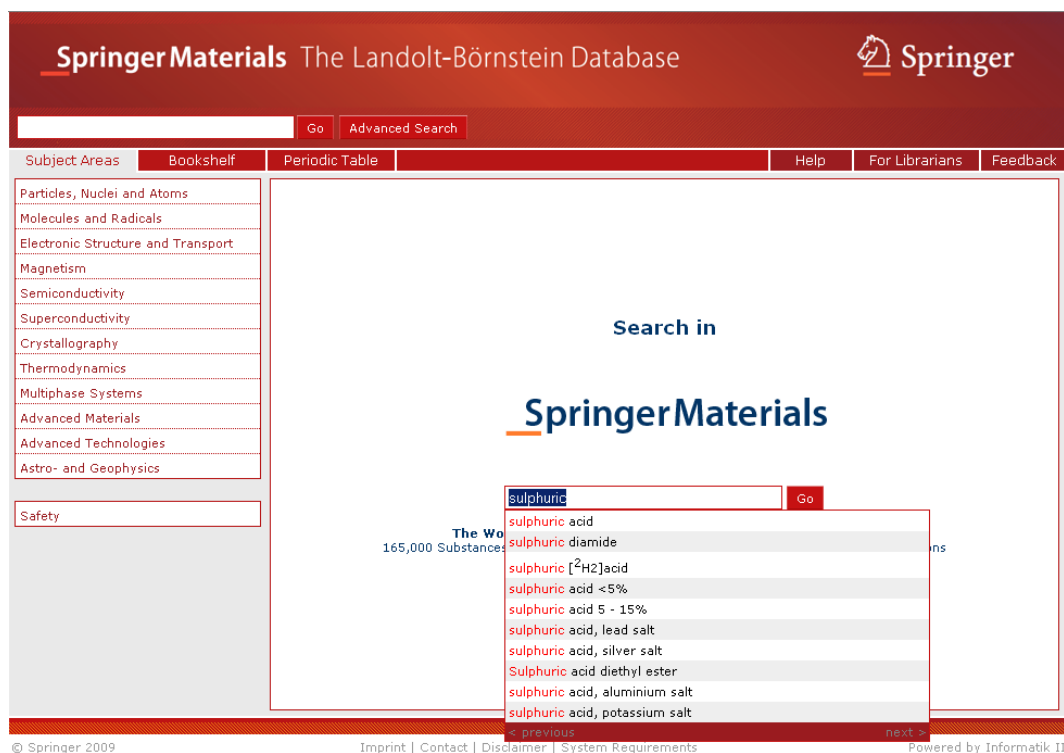


SpringerMaterials Sample Searches


- [Simple Search](#)
- [Advanced Search](#)
- [Bibliography Search](#)
- [Safety Document Search](#)
- [Periodic Table Search](#)

Simple Search



The screenshot displays the SpringerMaterials Simple Search interface. At the top, the header includes the SpringerMaterials logo and the Springer logo. Below the header is a search bar containing the text "sulphuric" and a "Go" button. A dropdown menu is open, showing a list of suggestions: "sulphuric acid", "sulphuric diamide", "sulphuric [2H2]acid", "sulphuric acid <5%", "sulphuric acid 5 - 15%", "sulphuric acid, lead salt", "sulphuric acid, silver salt", "Sulphuric acid diethyl ester", "sulphuric acid, aluminium salt", and "sulphuric acid, potassium salt". To the left of the search bar, there is a sidebar with a list of subject areas: "Particles, Nuclei and Atoms", "Molecules and Radicals", "Electronic Structure and Transport", "Magnetism", "Semiconductivity", "Superconductivity", "Crystallography", "Thermodynamics", "Multiphase Systems", "Advanced Materials", "Advanced Technologies", "Astro- and Geophysics", and "Safety". Below the search bar, the text "The World of 165,000 Substances" is visible. At the bottom of the page, there is a footer with the text "© Springer 2009", "Imprint | Contact | Disclaimer | System Requirements", and "Powered by Informatik II".

The Simple Search field is found in the center of the SpringerMaterials homepage and replicated in the field below the SpringerMaterials logo. Typing in a query is the quickest way to find data; however, to get a more precise result, refinement is possible in a second step. In the example we are interested in all data available about "sulphuric acid". Typing in the first characters opens a list of suggestions (speed-typing) which shows the available content. A click on the first term and pushing the "Go" button executes the query. A list of available documents is shown:

SpringerMaterials The Landolt-Börnstein Database 



"sulphuric acid"



Subject Areas Bookshelf Periodic Table Help For Librarians Feedback



1 Particles, Nuclei and Atoms
7 Molecules and Radicals
2 Electronic Structure and Transport
1 Magnetism
0 Semiconductivity
0 Superconductivity
2 Crystallography
29 Thermodynamics
1 Multiphase Systems
0 Advanced Materials
3 Advanced Technologies
0 Astro- and Geophysics



6 Safety



Results 1 - 10 of 46 Documents [previous](#) [1](#) [2](#) [3](#) [4](#) [5](#) [next](#)



Thermodynamics > Mechanical Properties > Liquid Systems: Densities and Heat Capacities > Densities of ternary and polynary aqueous systems > Inorganic-organic systems containing water
Ternary and polynary systems: Inorganic components A, organic components B, and water  
Metadata - Substance: sulphuric acid ... sulphuric acid <5% ... sulphuric acid 5 - 15% ... sulphuric acid, lead salt ... sulphuric acid, silver salt ... sulphuric acid, aluminium salt ... sulphuric acid, potassium salt ...

Thermodynamics > Mechanical Properties > Liquid Systems: Densities and Heat Capacities > Densities of ternary and polynary aqueous systems > Inorganic-inorganic systems containing water
Inorganic components A, B, and water: AgBr - J2  
Metadata - Substance: sulphuric acid ... sulphuric acid <5% ... sulphuric acid 5 - 15% ... sulphuric acid, silver salt ... sulphuric acid, aluminium salt ... sulphuric acid, potassium salt ...


Thermodynamics > Mechanical Properties > Liquid Systems: Densities and Heat Capacities > Densities of ternary and polynary aqueous systems > Inorganic-inorganic systems containing water
Inorganic components A, B, and water: KBr - ZnO  
Metadata - Substance: sulphuric acid ... sulphuric acid <5% ... sulphuric acid 5 - 15% ... sulphuric acid, lead salt ... sulphuric acid, potassium salt ...

Thermodynamics > Mechanical Properties > Liquid Systems: Densities and Heat Capacities > Densities of ternary and polynary aqueous systems > Inorganic-organic systems containing water
Polynary systems: Inorganic components A, B, C, ..., water  
Metadata - Substance: sulphuric acid ... sulphuric acid <5% ... sulphuric acid 5 - 15% ... sulphuric acid, aluminium salt ... sulphuric acid, potassium salt ...

Thermodynamics > Mechanical Properties > Liquid Systems: Densities and Heat Capacities > Densities of nonaqueous systems
Nonaqueous systems of two inorganic components  
Metadata - Substance: sulphuric acid ... sulphuric acid <5% ... sulphuric acid 5 - 15% ...

Molecules and Radicals > Molecules, General Topics > Molecular Acoustics > Sound velocity in gases and liquids > Aqueous solutions of electrolytes
Sound velocity, density, and compressibility as a function of concentration  
Metadata - Substance: sulphuric acid ... sulphuric acid <5% ... sulphuric acid 5 - 15% ... sulphuric acid, potassium salt ...

Each document found by the query is presented by indicating the path to the document in the systematic hierarchy, the title of the document, and the context of the search terms within the document. A more compact list not showing the context can be obtained by clicking "Compact View":

SpringerMaterials The Landolt-Börnstein Database 



"sulphuric acid"



Subject Areas Bookshelf Periodic Table Help For Librarians Feedback



1 Particles, Nuclei and Atoms
7 Molecules and Radicals
2 Electronic Structure and Transport
1 Magnetism
0 Semiconductivity
0 Superconductivity
2 Crystallography
29 Thermodynamics
1 Multiphase Systems
0 Advanced Materials
3 Advanced Technologies
0 Astro- and Geophysics



6 Safety



Results 1 - 10 of 46 Documents [previous](#) [1](#) [2](#) [3](#) [4](#) [5](#) [next](#)



Thermodynamics > Mechanical Properties > Liquid Systems: Densities and Heat Capacities > Densities of ternary and polynary aqueous systems > Inorganic-organic systems containing water
Ternary and polynary systems: Inorganic components A, organic components B, and water  



Thermodynamics > Mechanical Properties > Liquid Systems: Densities and Heat Capacities > Densities of ternary and polynary aqueous systems > Inorganic-inorganic systems containing water
Inorganic components A, B, and water: AgBr - J2  



Thermodynamics > Mechanical Properties > Liquid Systems: Densities and Heat Capacities > Densities of ternary and polynary aqueous systems > Inorganic-inorganic systems containing water
Inorganic components A, B, and water: KBr - ZnO  

Thermodynamics > Mechanical Properties > Liquid Systems: Densities and Heat Capacities > Densities of ternary and polynary aqueous systems > Inorganic-organic systems containing water
Polynary systems: Inorganic components A, B, C, ..., water  

Thermodynamics > Mechanical Properties > Liquid Systems: Densities and Heat Capacities > Densities of nonaqueous systems
Nonaqueous systems of two inorganic components  

Molecules and Radicals > Molecules, General Topics > Molecular Acoustics > Sound velocity in gases and liquids > Aqueous solutions of electrolytes
Sound velocity, density, and compressibility as a function of concentration  

Thermodynamics > Mechanical Properties > Liquid Systems: Densities and Heat Capacities > Densities of nonaqueous systems
Nonaqueous systems of three or more components  

Thermodynamics > Mechanical Properties > High-Pressure Properties of Matter > Transport phenomena under pressure > Data on binary systems
Inorganic compounds - water  

Molecules and Radicals > Molecular Structure > Inorganic Molecules

Clicking "Refine" opens the "Advanced Search" form.

[\[up\]](#)

Advanced Search

SpringerMaterials The Landolt-Börnstein Database

Springer

Substances, Properties, ... Bibliographic References Help Close

Your Query
{\"urea\" or \"57-13-6\" or \"CH4N2O\"};{\"vapor pressure\" or \"vapour pressure\"} Go

Search for ...
Substances / Molecular Formulas / Element Systems / CAS Registry Numbers
\"urea\" or \"57-13-6\" or \"CH4N2O\"
Properties
\"vapor pressure\" or \"vapour pressure\" Refine

Search in ...

- Particles, Nuclei and Atoms
- Molecules and Radicals
- Electronic Structure and Transport
- Magnetism
- Semiconductivity
- Superconductivity
- Crystallography
- Thermodynamics
- Multiphase Systems
- Advanced Materials
- Advanced Technologies
- Astro- and Geophysics
- Safety

Search for ...

- ... all of these words
- ... one or more of these words
- ... exactly this phrase
- ... but none of these words

Materials

Go

al & Chemical Data:
s | 1,000,000 Literature Citations

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The Advanced Search allows specific searches for chemical substances and their properties. Chemical substances can be specified by their element systems, molecular formulas, CAS registry numbers, or proper names. In the example the user is searching for the vapor pressure of urea. Thus, "urea" was typed in the substance search field and the appropriate entry was chosen from the list of suggestions. Then the first characters of the property "vapor pressure" were typed and the corresponding hit was chosen from the list of suggestions. "Your Query" combines all search strings from the other fields of the advanced search page into a Boolean query that can be submitted as is or adapted if necessary. Pushing the "Go" button executes the query.

The following screenshot shows the list of available documents:

The screenshot shows the SpringerMaterials interface. At the top, the search query is entered in a red box: `{\"urea\" or \"57-13-6\" or \"CH4N2O\"}{'vapor'}`. Below the search bar, there are navigation tabs for 'Subject Areas', 'Bookshelf', 'Periodic Table', 'Help', 'For Librarians', and 'Feedback'. The search results are displayed in a list format, showing the first 10 of 17 documents. Each result includes a breadcrumb trail (e.g., 'Thermodynamics > Thermodynamical Properties > Organic Compounds > Vapor Pressure and Antoine Constants > Nitrogen Containing Organic Compounds'), a title (e.g., 'Compounds Br, C1...C30'), and a snippet of the document's metadata and fulltext. The first hit is for 'Compounds Br, C1...C30' and includes the molecular formula CH4N2O and keywords like 'vapor pressure'. The second hit is for 'Compounds C2...C8' and includes the molecular formula CH4N2O and keywords like 'vapor pressure'. The third hit is for 'Organic Compounds, C1...C3' and includes the molecular formula CH4N2O and keywords like 'vapor pressure'. The fourth hit is for 'Compounds C7...C10' and includes the molecular formula CH4N2O and keywords like 'vapor pressure'. The fifth hit is for 'Compounds C9...C57' and includes the molecular formula CH4N2O and keywords like 'vapor pressure'. The sixth hit is for 'Kaolin group and related silicates II'.

The PDF document in the first hit is the best and includes the vapor pressure of urea.

A combined substance/property search is a typical use case for SpringerMaterials.

The Advanced Search page is opened by clicking on the "Advanced Search" button or by clicking the "Refine" button in the list of hits, e.g., as a second step after a simple search.

Besides the search for chemical substances and properties, the "Advanced Search" allows you to search for a specific word, for exact phrases, and to exclude documents containing specific words from the search results. Moreover, search can be restricted to one or more subject areas.

[up]

Bibliography Search

The screenshot shows the SpringerMaterials website interface. At the top, it says "SpringerMaterials The Landolt-Börnstein Database" and the Springer logo. Below the header, there are tabs for "Substances, Properties, ..." and "Bibliographic References". A search box is open, showing the search term "williams" and a "Go" button. The search results are displayed in a list format, with each entry starting with a number in a small box on the left. The results include:


- 1 A.K. Pradhan and J. Peng, in *Analysis of Emission Lines*, Ed. R.E. Williams and M. Livio, Cambridge University Press (1995).
- 2 Aaronson, M. in: *Infrared Astronomy*, Int. Astron. Union Symp. 96 (Wynn-Williams, C.E., Cruithshank, D.P., eds.), Reidel, Dordrecht (1981) p. 297.
- 3 Ababio, B.D., McElroy, P.J., Salt, B., Williamson, A.G.: *Chem. Eng. J. (Lausanne)* 47 (1991) 113.
- 4 Ababio, B.D., McElroy, P.J., Williamson, A.G.: *Fluid Phase Equilib.* 95 (1994) 329.
- 5 Abegg, R., Hutton, J.D., Williams-Norton, M.E.: *Nucl. Phys. A* 303 (1978) 121.
- 6 Abel, E.W., Bhargava, S.K., Bhatti, M.M., Kite, K., Mazid, M.A., Orrell, K.G., Sik, V., Williams, B.L., Hursthouse, M.B., Abdul Malik, K.M.: *J. Chem. Soc., Dalton Trans.* (1982) 2065.
- 7 Abrahams, S.C., Bernstein, J.L., Sherwood, R.C., Wernick, J.H., Williams, H.J.: *J. Phys. Chem. Solids* 25 (1964) 1069.
- 8 Abrahams, S.C., Williams, H.J.: *J. Chem. Phys.* 39 (1963) 2923.
- 9 Adam, W., Sahin, C., Sendelbach, J., Walter, H., Chen, G.-F., Williams, F.: *J. Am. Chem. Soc.* 116 (1994) 2576.
- 10 Adam, W., Walter, H., Chen, G.-F., Williams, F.: *J. Am. Chem. Soc.* 114 (1992) 3007.
- 11 Addinall, R., Murray, R., Newman, R.C., Wagner, J., Parker, S.D., Williams, R.L., Droopad, R., De Oliveira, A.G., Ferguson, I., Stradling, R.A.: *Semicond. Sci. Technol.* 6 (1991) 147.
- 12 Adkins, H., Williams, J.L.R.: *J. Org. Chem.* 17 (1952) 980.
- 13 Allen, E.A., B.J. Brisdon, D.A. Edwards, G.W.A. Fowles and R.G. Williams: *J. Chem. Soc.* 1963, 4649.
- 14 Allen, S.M., Fujii, M., Stannett, V., Hopfenberg, H.B., Williams, J.L.: *J. Membr. Sci.* 2 (1977) 153.

At the bottom of the search results, there are navigation buttons: "< previous" and "next >". On the right side of the search results, there is a "Go" button and a section titled "Chemical Data:" with the text "0,000 Literature Citations".

The "Bibliography Search" is part of the Advanced Search feature. SpringerMaterials contains over 1 million references to primary literature (over 8000 journals are referenced). A fulltext search performed on the reference collection will immediately deliver authors, editors, publications if referenced in the database. Typing effort for query formulation is reduced by suggestions of terms (speed-typing) showing available content. In this example we typed in "williams" and get suggestions of possible references where the substring "williams" occurs. A click on one of the references leads to documents citing this literature.

[up]

Safety Document Search

SpringerMaterials The Landolt-Börnstein Database 

Subject Areas | Bookshelf | Periodic Table | Help | For Librarians | Feedback

Particles, Nuclei and Atoms
Molecules and Radicals
Electronic Structure and Transport
Magnetism
Semiconductivity
Superconductivity
Crystallography
Thermodynamics
Multiphase Systems
Advanced Materials
Advanced Technologies
Astro- and Geophysics

Safety

Search in


REACH, GHS, RoHS, WEEE

Substances / Molecular Formulas / Element Systems / CAS Registry Numbers

REACH - Registration, Evaluation, Authorization and Restriction of Chemicals
GHS - Globally Harmonized System
RoHS - Restriction of Hazardous Substances
WEEE - Waste from Electrical and Electronic Equipment

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The "Safety Document Search" can be accessed by clicking "Safety" on the SpringerMaterials home page. It facilitates finding safety-relevant information on the substances included in SpringerMaterials. Substances can be specified by their proper names, molecular formulas, element systems, or CAS-Registry Numbers.

SpringerMaterials The Landolt-Börnstein Database 

Subject Areas | Bookshelf | Periodic Table | Help | For Librarians | Feedback

Particles, Nuclei and Atoms
Molecules and Radicals
Electronic Structure and Transport
Magnetism
Semiconductivity
Superconductivity
Crystallography
Thermodynamics
Multiphase Systems
Advanced Materials
Advanced Technologies
Astro- and Geophysics

Safety

Search in

REACH, GHS, RoHS, WEEE

Substances / Molecular Formulas / Element Systems / CAS Registry Numbers


- benzene (C₆H₆)
- benzene-d₆ (C₆D₆)
- Benzene-1,4-d₂ (C₆H₄D₂)
- benzenemethanol (C₇H₈O)
- Cyanato-benzene (C₇H₅NO)
- benzene selenol (C₆H₆Se)
- butoxy-benzene (C₁₀H₁₄O)
- dimethyl-benzene (C₈H₁₀)
- propoxy-benzene (C₉H₁₂O)
- Benzene, hexaiodo- (C₆I₆)
- Benzene, iodyl- (C₆H₅IO₂)
- Benzene-1,3,5-d₃ (C₆H₃D₃)
- benzene-1,3-diol (C₆H₆O₂)
- (1,3-Ethyl) benzene (C₈H₁₀)

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"Safety Document Search" finds data from REACH (Registration, Evaluation, Authorization and Restriction of Chemicals). If available, data about Hazard Information (Dangerous Substances Directive 67/548/EEC), GHS (Globally Harmonized System), RoHS (Restriction of Hazardous Substances), WEEE (Waste from Electrical and Electronic Equipment) and on the European Chemicals Agency (ECHA) pre-registration are also given.

In the example the user is interested in REACH-relevant data of benzene. A click on the first entry in the list of suggestions opens the corresponding data sheet:



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European regulations regarding benzene (C₆H₆)

Name: benzene Formula: C₆H₆
 CAS-RN: 71-43-2 Molecular Weight: 78.112 g/mol
 EG-Index: 601-020-00-8 (2004/73/EC)
 EINECS: 200-753-7 (EINECS2)

Hazard Information (Dangerous Substances Directive 67/548/EEC)


Hazard symbols	 	2004/73/EC
R-Phrase	<p style="text-align: center;">T F</p> <p style="text-align: center;">Toxic Highly flammable</p> <p>45-46-11-36/38-48/23/24/25-65 R45 May cause cancer. R46 May cause heritable genetic damage. R11 Highly Flammable. R36/38 Irritating to eyes and skin. R48/23/24/25 Toxic: danger of serious damage to health by prolonged exposure through inhalation, in contact with skin and if swallowed. R65 Harmful: may cause lung damage if swallowed.</p>	2004/73/EC
S-Phrase	<p>53-45 S53 Avoid exposure - obtain special instructions before use. S45 In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).</p>	2004/73/EC

GHS classification (Globally Harmonized System)
 Regulation on Classification, Labelling and Packaging of Substances and Mixtures (CLP)

Signal Word	Danger	EC/1272/2008
Pictogram	  	
Hazard Statements	<p>H225 Highly flammable liquid and vapour. H350 May cause cancer <state route of exposure if it is conclusively proven that no other routes of exposure cause the hazard>. H340 May cause genetic defects <state route of exposure if it is conclusively proven that no other routes of exposure cause the hazard>. H372 Causes damage to organs <or state all organs affected, if known> through prolonged or repeated exposure <state route of exposure if it is conclusively</p>	

[\[up\]](#)

Periodic Table Search

SpringerMaterials The Landolt-Börnstein Database 

Subject Areas Bookshelf **Periodic Table** Help For Librarians Feedback

No Elements Selected


Search for Element Systems

Select elements by clicking on the symbols.
Deselect elements by clicking a second time.

Your Selection:
*

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18		
IA	IIA	IIIB	IVB	VB	VIB	VIIb	VIIIb	VIIIb	VIIIb	IB	IIB	IIIA	IVA	VA	VIA	VIIA	VIIIA		
1 H	2 D	3 T										5 B	6 C	7 N	8 O	9 F	10 He		
3 Li	4 Be											13 Al	14 Si	15 P	16 S	17 Cl	18 Ar		
11 Na	12 Mg											29 Cu	30 Zn	31 Ga	32 Ge	33 As	34 Se	35 Br	36 Kr
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	34 Se	35 Br	36 Kr		
37 Rb	38 Sr	39 Y	40 Zr	41 Nb	42 Mo	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	56 Ba	*	72 Hf	73 Ta	74 W	75 Re	76 Os	77 Ir	78 Pt	79 Au	80 Hg	81 Tl	82 Pb	83 Bi	84 Po	85 At	86 Rn		
87 Fr	88 Ra	**	102 Rf	103 Db	104 Sg	105 Bh	106 Hs	107 Mt	108 Ds	109 Rg	110 Cn	111 Nh	112 Fl	113 Mc	114 Lv	115 Ts	116 Og		
	* 57 La	58 Ce	59 Pr	60 Nd	61 Pm	62 Sm	63 Eu	64 Gd	65 Tb	66 Dy	67 Ho	68 Er	69 Tm	70 Yb	71 Lu				
	** 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				

A click on the button "Periodic Table" opens a window showing the Periodic Table of Chemical Elements. It supports a search by element systems of substances and materials. Elements can be selected by clicking on the symbols of the Periodic Table. The elements chosen can be deselected by clicking on them a second time either in the Periodic Table or in the "Your Selection" string.

SpringerMaterials The Landolt-Börnstein Database 

Subject Areas Bookshelf **Periodic Table** Help For Librarians Feedback

Al-Cr-Fe
Al-Co-Cr-Fe
Al-Cr-Fe-Ge
Al-Cr-Fe-N
Al-Cr-Fe-Ni
Al-Cr-Fe-O
Al-Cr-Fe-S
Al-Cr-Fe-S
Al-Cr-Fe-Ge-Mn
Al-Cr-Fe-H-O
Al-Cr-Fe-Mg-O
Al-Cr-Fe-Mn-O
Al-Cr-Fe-Ni-O
Al-Cr-Fe-O-Si
Al-Cr-Fe-O-Ti
Al-Cr-Fe-O-Zn
Al-Co-Cr-Fe-O-Zn
Al-Cr-Fe-Mg-Ni-O
Al-Cr-Fe-Mg-O-Si
Al-Cr-Fe-Mg-O-Ti
Al-Cr-Fe-Mg-O-Zn
Al-Cr-Fe-Nb-Ni-Ti
Al-Ca-Cr-Fe-Mg-O-Si
Al-Ca-Cr-Fe-Mn-O-Si
Al-Ca-Cr-Fe-O-Si-Ti
Al-Cr-Fe-H-Mg-O-Si
Al-Cr-Fe-Mg-Na-O-Si
Al-Ca-Cr-Fe-H-Mg-O-Si
Al-Ca-Cr-Fe-Mg-Mn-O-Si

Search for Element Systems

Select elements by clicking on the symbols.
Deselect elements by clicking a second time.

Your Selection:
Al-Cr-Fe-*

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18		
IA	IIA	IIIB	IVB	VB	VIB	VIIb	VIIIb	VIIIb	VIIIb	IB	IIB	IIIA	IVA	VA	VIA	VIIA	VIIIA		
1 H	2 D	3 T										5 B	6 C	7 N	8 O	9 F	10 He		
3 Li	4 Be											13 Al	14 Si	15 P	16 S	17 Cl	18 Ar		
11 Na	12 Mg											29 Cu	30 Zn	31 Ga	32 Ge	33 As	34 Se	35 Br	36 Kr
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	34 Se	35 Br	36 Kr		
37 Rb	38 Sr	39 Y	40 Zr	41 Nb	42 Mo	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	56 Ba	*	72 Hf	73 Ta	74 W	75 Re	76 Os	77 Ir	78 Pt	79 Au	80 Hg	81 Tl	82 Pb	83 Bi	84 Po	85 At	86 Rn		
87 Fr	88 Ra	**	102 Rf	103 Db	104 Sg	105 Bh	106 Hs	107 Mt	108 Ds	109 Rg	110 Cn	111 Nh	112 Fl	113 Mc	114 Lv	115 Ts	116 Og		
	* 57 La	58 Ce	59 Pr	60 Nd	61 Pm	62 Sm	63 Eu	64 Gd	65 Tb	66 Dy	67 Ho	68 Er	69 Tm	70 Yb	71 Lu				
	** 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				

Elements chosen are highlighted by an orange frame and are also displayed in the central "Your Selection" string. Elements not available for further combinations are grayed-out in the Periodic Table.

After choosing an element a list of available element systems opens on the left hand. Chosen elements are marked red, black elements show further possible combinations. Click on a possible combination from the list and a list of available documents is shown in a new window.

In this example, we have chosen aluminum (Al), chromium (Cr) and iron (Fe). By clicking the first entry in the list of available element systems ("Al-Cr-Fe"), a list of documents containing this element system appears:

The screenshot shows the SpringerMaterials interface. At the top, the search bar contains "Al-Cr-Fe" and the "Go" button is highlighted. Below the search bar, there are navigation tabs: "Subject Areas", "Bookshelf", "Periodic Table", "Help", "For Librarians", and "Feedback". The "Subject Areas" tab is active, showing a list of categories with counts: 0 Particles, Nuclei and Atoms; 0 Molecules and Radicals; 1 Electronic Structure and Transport; 15 Magnetism; 0 Semiconductivity; 0 Superconductivity; 3 Crystallography; 0 Thermodynamics; 4 Multiphase Systems; 0 Advanced Materials; 0 Advanced Technologies; 0 Astro- and Geophysics; and 0 Safety.

The main content area displays search results for "Al-Cr-Fe". It shows "Results 1 - 10 of 23 Documents" and includes buttons for "Compact View", "Clear", and "Refine". The first result is titled "Al-Cr-Fe" and includes a "Metadata" section: "Substance: Al-Cr-Fe ... Al-Cr-Fe (Aluminium-Chromium-Iron) ... Metadata - Element System: Al-Cr-Fe ... Fulltext: Al-Cr-Fe Aluminium - Chromium - Iron ... Literature Data Although the Al-Cr-Fe system has undergone many investigations, the Al-Cr-Fe equilibrium diagram has not ... of the (yFe)-loop in the Al-Cr-Fe system are given in Table 2 ...".

The second result is titled "Aluminium - Chromium - Iron" and includes a "Metadata" section: "Substance: Al-Cr-Fe ... Metadata - Element System: Al-Cr-Fe ... Fulltext: in the phase relations in the Al-Cr-Fe system, particularly as ... peculiarity of the Al-Cr-Fe system. Although this system ... many investigations, the Al-Cr-Fe equilibrium diagram has not ... 1. Investigations of the Al-Cr-Fe Phase Relations, Structures ... of the (yFe)-loop in the Al-Cr-Fe system is given in Table 3 ...".

The third result is titled "Introduction, Table 123-130, Figs. 596-609" and includes a "Metadata" section: "Element System: Al-Cr-Fe ...".

The fourth result is titled "Cr63.4Fe51.4Al477.4" and includes a "Metadata" section: "Element System: Al-Cr-Fe ...".

The fifth result is titled "Figs. A103 - A137" and includes a "Metadata" section: "Element System: Al-Cr-Fe ...".

The sixth result is titled "Bulk magnetic properties > Ferromagnets X{2}YZ for Y other than Mn" and includes a "Metadata" section: "Element System: Al-Cr-Fe ...".

To add any other search criteria, a click on the "Refine" button (top right) opens the Advanced Search window:

The screenshot displays the SpringerMaterials search interface. At the top, the logo 'SpringerMaterials The Landolt-Börnstein Database' and the Springer logo are visible. Below the header, there are tabs for 'Substances, Properties, ...' and 'Bibliographic References', along with 'Help' and 'Close' buttons. The main search area is titled 'Your Query' and contains the text 'Al-Cr-Fe' in a search box, with a 'Go' button and a 'Refine' checkbox. Below the search box, there are sections for 'Search for ...' and 'Search in ...'. The 'Search for ...' section has a dropdown menu with 'phase dia' selected, showing a list of suggestions: 'phase diagram', 'magnetic phase diagram', and 'structural phase diagram'. The 'Search in ...' section has a list of categories with checkboxes, including 'Particle', 'Molecular', 'Electronic Structure and Transport', 'Magnetism', 'Semiconductivity', 'Superconductivity', 'Crystallography', 'Thermodynamics', 'Multiphase Systems', 'Advanced Materials', 'Advanced Technologies', 'Astro- and Geophysics', and 'Safety'. The right side of the interface shows a list of search results, including 'Element System: Al-Cr-Fe ... Fulltext: Al-Cr-Fe' and 'Magnetic properties of 3d, 4d, and 5d with main group elements > Heusler alloys >'. The bottom of the interface shows a navigation bar with 'Al, Ga, In or Tl > 3d - Al alloys and compounds > Figures' and 'Figs. A103 - A137'.

In this case we are interested in a phase diagram of the element system Al-Cr-Fe. Typing in the first characters into the Properties search field opens the speed-typing list, and the entry "phase diagram" can be chosen. The complete search phrase will then be shown in the field "Your Query" which can be edited or left as it is. Pushing the "Go" button will lead to the list of available documents.

[up]