

How to use the program

Important for first use

The information on this CD-ROM is structured into 700 document files according to substances and their physical properties.

From the present file **LB-START** the user is recommended to select a substance of interest via the separate **list of substances** (with main groups and subgroups where substances are ordered alphabetically, or in case of lanthanides and actinides according to the atomic number of the first element). In these list each substance is linked to a **list of physical properties**., from which further links lead to the document files. Within each document file bookmarks are provided to the **list of references** and to each **figure**. Further bookmarks exist for the **list of properties**, **lists of symbols and abbreviations**, and **back to start**

Cross references to other documents or files are fully linked, too. – Red rectangles indicate the positions of the links.

A **fulltext search**(small binocular) or a **search restricted to a given file**(large binocular) is also possible, but should be executed only after reading carefully the **online help** of the Acrobat reader and after some experience with the **file structure and coding of substances** and their properties.

For the general introduction we refer to volume and CD-ROM III/41A1.

For actual information about **Landolt-Börnstein** and in case of problems, questions and suggestions please consult our helpdesk **em-helpdesk@springer.de** or visit us on **INTERNET**

We wish you much success with our CD-ROM !

Important for first use, adjust your reader 3.0 to the needs of the program!

For comfortable use of the program, please go to
the menu **file, preferences, general**,
the small rectangle before **open cross document links in same window** should be empty. [Click here](#)

The right choice of this preference in your reader is important for the following reason:
Normally a file is opened on a fixed page, e.g. on the first page. With the above change of your
preferences the file always opens on the page which you have visited before.

Example: You normally make a choice of a given substance starting from the list of substances, proceed to the
list of properties, and from there to a **document file**.

After usage of the document, e.g. scrolling etc. you can return by a single mouse click on the bookmark **List of
properties** to that page in the list of properties from which you have opened the document data file. The same
holds for the bookmark **Back to start** which leads to the page of the list of substances where you started from.

Without the right preference you always return to the **first** pages of the list of properties or the start file, and
from there you have to repeat your way completely.

Landolt-Börnstein

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Alphabetical List of Substances

This list contains all substances (compounds) for which data are provided on this CD-ROM.

Chemical formulae of the compounds are generally given as listed in the respective document.

The compounds are arranged according to main groups (see below). These main groups are characterized by the group numbers of the Periodic System the elements of a class of compounds are belonging to. Due to the great amount of data, boron compounds are listed separately:

boron – group I compounds

boron – group II compounds

boron – group III compounds

boron – lanthanide compounds

boron – actinide compounds

boron – group IV compounds

boron – group V compounds

boron – group VI compounds

boron – group VII compounds

boron – group VIII compounds

IV – V – VIII compounds

IV – VI compounds

IV – VI – VIII compounds

IV – VII compounds

IV – VIII compounds

V – VI compounds

V – VI – VIII compounds

V – VII compounds

V – VIII compounds

VI – VI compounds

VI – VII compounds

VI – VIII compounds

binary rare-earth compounds

Each main group is divided into subgroups in which special compounds are summarized. The subgroup titles are generally listed in alphabetical order. Within each subgroup the compounds are arranged

1. alphabetically according to the first element of the compound,
2. according to the (growing) number of the first element,
3. alphabetically according to the second element of the compound,
4. according to the (growing) number of the second element, etc.

An exception are the lanthanide and actinide compounds. For these substances the order is given by their appearance in the Periodic System of the first element (i.e. by the atomic number of this element).

Examples:

NaB₆ is listed under "boron – group I compounds", subgroup "boron – sodium compounds", after NaB₅C

TiS₂ is listed under main group "IV – VI compounds", subgroup "chalcogenides of Ti, Zr, Hf", after Hf₂Se₃

ErH₃ is listed under main group "binary rare-earth compounds", subgroup "rare-earth hydrides", after HoH₃.

Please choose your substance of interest.

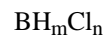
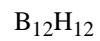
A click on the green rectangle next to the chosen substance (or subgroup title) leads you to a list of properties of this substance (or subgroup). From this list of properties you proceed in the same way to the selected property.

boron compounds

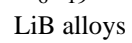
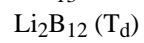
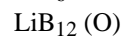
boron compounds (general data)

boron – group I compounds

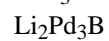
boron-hydrogen alloys



binary boron-lithium compounds



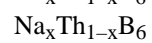
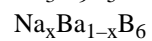
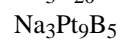
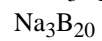
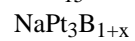
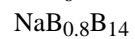
ternary boron-lithium compounds



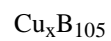
boron-potassium compounds



boron-sodium compounds

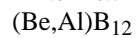
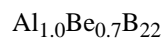


compounds with Ib elements



boron – group II compounds

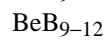
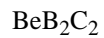
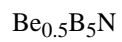
beryllium-aluminum-boron compounds



boron-alkaline earth compounds



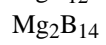
boron-beryllium compounds



boron-cadmium compounds



boron-magnesium compounds



boron-zinc compounds



boron – group III compounds

Al-B compounds: AlB_2 , AlB_4 , AlB_{10}

AlB_2

AlB_4

AlB_{10}

$\alpha\text{-AlB}_{12}$

$\alpha\text{-AlB}_{12}$

$\alpha\text{-AlB}_{12}$ type compounds

$(\text{Be}, \text{Al})\text{B}_{12}$

$\beta\text{-AlB}_{12}$

$\beta\text{-AlB}_{12}$

$\gamma\text{-AlB}_{12}$

$\gamma\text{-AlB}_{12}$

AlB_{31} , AlBeB_{22}

AlB_{31}

AlBeB_{22}

Al_3B_{32} and $\text{Al}_x\text{B}_{105}$

Al_3B_{32}

$\text{Al}_x\text{B}_{105}$

Al-B-C compounds

Al_3BC

Al_3BC_3

$\text{Al}_4\text{B}_x\text{C}_{3-x}$

Al-C-B compounds

$\text{AlC}_2\text{B}_{12}$

$\text{AlC}_4\text{B}_{24}$

$\text{AlC}_4\text{B}_{24\dots26}$

$\text{AlC}_4\text{B}_{40}$

$\text{Al}_3\text{C}_2\text{B}_{48}$, $\text{Al}_3\text{B}_{48}\text{C}_2$, $\text{C}_2\text{Al}_3\text{B}_{48}$, $\text{B}_{48}\text{Al}_3\text{C}_2$

$\text{Al}_3\text{C}_2\text{B}_{48}$

$\text{Al}_3\text{B}_{48}\text{C}_2$

$\text{C}_2\text{Al}_3\text{B}_{48}$

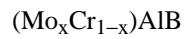
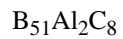
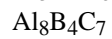
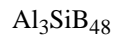
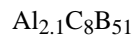
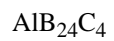
$\text{B}_{48}\text{Al}_3\text{C}_2$

Al-Mg-B and Al-Cu-B compounds

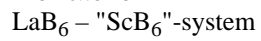
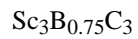
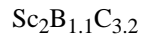
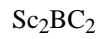
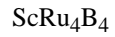
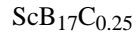
$\text{Al}_{1.44}\text{Mg}_{0.65}\text{B}_{22}$

$\text{Al}_x\text{Cu}_y\text{B}_{25}$

further ternary Al-B compounds



boron-scandium compounds



boron-yttrium and Ln_3MB_7
compounds (except YB_{66})

YAlB_{14}

YB_2

YB_4

YB_6

YB_{12}

YB_{25}

$\text{YB}_{41}\text{Si}_{1.2}$

$\text{YB}_{44}\text{Si}_{1.0}$

YB_{50}

YCrB_4

YREB_6

YRh_4B_4

$\text{Y}(\text{Rh}_{1-x}\text{Ru}_x)_4\text{B}_4$

YRuB_2

$\text{Y}_3\text{Co}_{11}\text{B}_4$

RE_3MB_7

Y_3FeB_7

Y_3MnB_7

Y_3ReB_7

Gd_3MnB_7

Gd_3ReB_7

Tb_3FeB_7

Tb_3ReB_7

Dy_3FeB_7

Dy_3ReB_7

Ho_3FeB_7

Ho_3ReB_7

Er_3FeB_7

Er_3ReB_7

Tm_3ReB_7

YB_{66}

YB_{66}

boron-lanthanide compounds

boron-lanthanide compounds, general data

see also boron-yttrium and Ln_3MB_7
compounds (except YB_{66})

La-B₄ type compounds

CeB₄

PrB₄

NdB₄

PmB₄

SmB₄

EuB₄

GdB₄

TbB₄

DyB₄

HoB₄

ErB₄

TmB₄

YbB₄

LuB₄

ternary LnAlB₄ tetraborides

ErAlB₄

TmAlB₄

YbAlB₄

LuAlB₄

lanthanide hexaborides

LaB₆

CeB₆

PrB₆

NdB₆

PmB₆

SmB₆

EuB₆

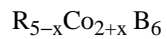
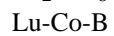
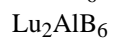
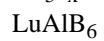
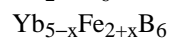
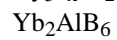
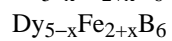
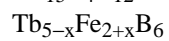
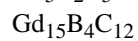
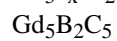
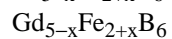
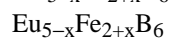
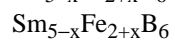
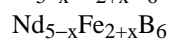
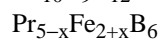
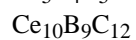
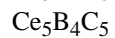
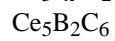
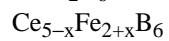
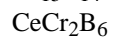
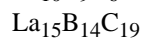
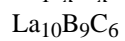
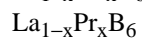
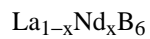
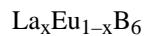
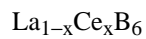
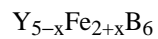
GdB₆

TbB₆

DyB₆

YbB₆

lanthanide ternary hexaborides



lanthanide dodecaborides

TbB₁₂

DyB₁₂

HoB₁₂

ErB₁₂

Er-Al-B

Er-Cr-B

TmB₁₂

YbB₁₂

LuB₁₂

lanthanide borides of the type MB₂₅

YB₂₅

TbB₂₅

lanthanide borides of the type MB₅₀

YB₅₀

TbB₅₀

lanthanide borides of the type MB_{66}

SmB_{66}

GdB_{66}

TbB_{66}

DyB_{66}

ErB_{66}

YbB_{66}

MgAlB_{14} type borides with lanthanides

TbAlB_{14}

DyAlB_{14}

HoAlB_{14}

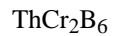
ErAlB_{14}

TmAlB_{14}

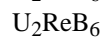
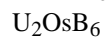
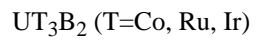
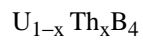
LuAlB_{14}

boron-actinide compounds

boron-thorium compounds



boron-uranium compounds



boron-plutonium compounds

PuB

PuB_2

PuB_4

PuB_6

PuB_{12}

PuB_{66}

boron-ameridium compounds

AmB_4

AmB_6

ternary actinide compounds

AT_3B_2

AT_2B_2

AT_4B_4

ATB_2

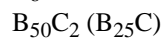
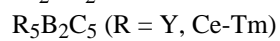
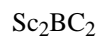
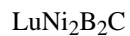
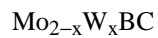
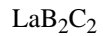
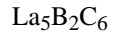
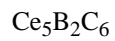
ATB_4

A_2TB_6

A = Actinoid element, T = one of the 3d, 4d
or 5d transition elements

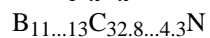
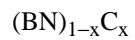
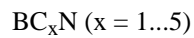
boron – group IV compounds

boron-carbon compounds (general remarks
and special compounds)



boron carbide ($\text{B}_{4.3}\text{C}$ to B_{11}C)

boron carbonitrides



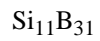
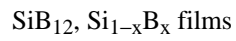
boron-germanium compounds



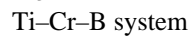
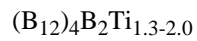
boron-hafnium compounds



boron-silicon compounds



boron-titanium compounds



boron-zirconium compounds

ZrB

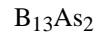
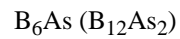
ZrB₂

ZrB₁₂

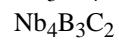
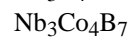
ZrB₅₁

boron – group V compounds

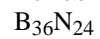
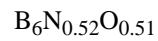
boron-arsenic compounds



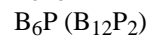
boron-niobium compounds



boron-nitrogen compounds



boron-phosphorus compounds



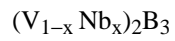
boron-tantalum compounds

(see also "compounds with Vb elements")



boron-vanadium compounds

(see also "compounds with Vb elements")



boron – group VI compounds

boron-chromium compounds

CrB

CrB₂

CrB₄

CrB₄₁

Cr₂B

Cr₂B₃

Cr₃B₄

Cr₅B₃

(Cr_{1-x}M_x)₃B₄ (M = W, Mo, Ta)

boron-molybdenum compounds

(see also "compounds with Vb elements")

Mo_{1-x}B₃

Mo_{1-x}Cr_xAlB

Mo_{1-x}Ti_xB₂

α-MoB

β-MoB

MoB₂

MoB₄

Mo₂B

Mo₂BC

Mo₂B₅

Mo₂FeB₂

Mo₂NiB₂

Mo₃B₂

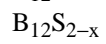
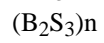
boron-oxygen compounds



boron-selenium compounds



boron-sulfur compounds



boron-tungsten compounds

α -WB

β -WB

δ -WB

WB₂

WB₄

WB₁₂

W₂B

α -W₂B₅

β -W₂B₅

boron uranium carbon compounds

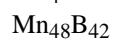
UB_{1-x}C_{1+x}

boron – group VII compounds

boron-halogen compounds



boron-manganese compounds



boron-rhenium compounds

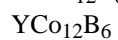
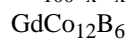
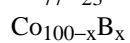
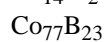
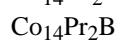
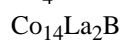
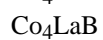
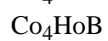
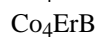
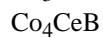
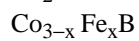
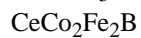


boron-technetium compounds



boron – group VIII compounds

boron-cobalt compounds



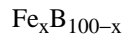
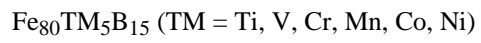
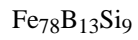
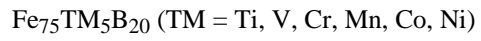
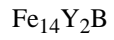
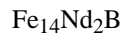
Co-Ni-Si-B alloys

RCo₄B compounds (R = Y, Pr, Nd, Sm, Gd, Tb)

boron-iridium compounds



boron-iron compounds



amorphous (glassy) Fe – B alloys

boron-nickel compounds

NiB

NiB₂₅

Ni₂B

Ni₃B

Ni₄B₃ (o)

Ni₄B₃ (m)

Ni₄CeB

Ni₄LaB

Ni₄PrB

Ni₄YB

amorphous (glassy) Ni – B alloys

boron-palladium compounds

Pd₃B

Pd₅B₂

boron-platinum compounds

PtB

Pt₂B

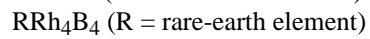
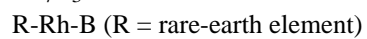
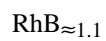
Pt₃B

Pt₄B

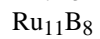
boron-osmium compounds



boron-rhodium compounds



boron-ruthenium compounds



ternary borides with group VIII elements

LnRh_3B (Ln= Sm, Gd, Er, Yb)

ScOsB_2

YOsB_2

YOs_3B_2

YRh_4B_4

YRuB_2

LaIr_3B_2

LaRh_3B_2

$\text{LaRu}_{2.7}\text{B}_2$

CeCo_3B_2

CeOs_3B_2

CeIr_3B_2

CeRh_3B_2

CeRu_3B_2

$\text{PrRh}_{4.8}\text{B}_2$

NdRh_4B_4

SmRh_4B_4

$\text{Gd}_3\text{Co}_{11}\text{B}_4$

DyB_2

DyRh_4B_4

HoIr_4B_4

HoRu_4B_4

ErIr_4B_4

ErRh_4B_4

TmIr_4B_4

TmRh_4B_4

LuB_2

LuOs_3B_2

LuRh_4B_4

LuRuB_2

ThIr_3B_2

ThOs_3B_2

ThRh_4B_4

RM_4B_4 (R = rare-earth element; M = Ru, Rh, Os, Ir)

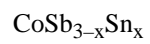
$\text{R}(\text{Os, Ir})_4\text{B}_4$ (R = rare-earth element)

$\text{R}(\text{Rh}_{1-x}\text{Ir}_x)_4\text{B}_4$ (R = Gd, Tb, Dy, Ho, Er, Tm, Lu)

RRh_3B_2 (R = La to Gd)

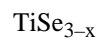
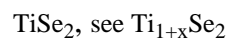
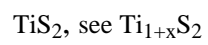
RRuB_4 (R = Gd, Tb, Dy, Ho, Er, Tm, Lu, Y)

IV–V–VIII compounds

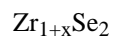
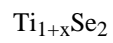
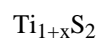


IV–VI compounds

chalcogenides of Ti, Zr, Hf, general



TiTe₂, see chalcogenides of Ti, Zr, Hf, general



binary transition metal oxides, general

titanium oxides, general

TiO, see titanium oxides, general

TiO_{2-x}

TiO₂

Ti₂O₃

Ti₃O₅

Ti₄O₇

Ti₅O₉

Ti₆O₁₁

Ti₇O₁₃

Ti₈O₁₅

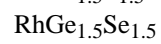
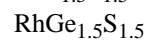
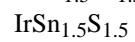
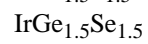
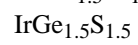
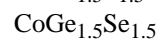
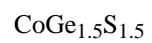
Ti₉O₁₇

Ti_nO_{2n-1}

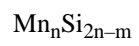
CrSi₂

IV–VI–VIII compounds

(transition metal)-IV_{1.5}VI_{1.5} compounds



IV–VII compounds



IV–VIII compounds

FeSi₂

OsSi₂

Os₂Ge₃

Os₂Si₃

Ru₂Ge₃

Ru₂Si₃

Ru₂Sn₃

V–VI compounds

CrP₄, see V–VII compounds,
group VII–tetraphosphides, general

CrSb₂

MoP₄, see V–VII compounds,
group VII–tetraphosphides, general

chalcogenides of V, Nb, Ta, general

NbO_x, see Nb₂O₅

NbO₂

NbS₃

Nb₂O_{5–x}, see Nb₂O₅

Nb₂O₅

Nb₁₂O₂₉, see Nb₂O₅

Nb₂₂O₅₄, see Nb₂O₅

Nb₂₅O₆₂, see Nb₂O₅

Nb₃₂O₇₉, see Nb₂O₅

TaS₂

TaS₃

TaSe₂, see chalcogenides of V, Nb, Ta, general

Ta₂O₅

VO₂

VO_{2+x}, see VO₂

V₂O₃

V₂O_{3+x}, see V₂O₃

V₂O_{5-x}, see V₂O₅

V₂O₅

V₃O₅

V₃O₇

V₄O₇

V₄O₉

V₅O₉

V_6O_{11}

V_6O_{13}

V_7O_{13}

V_7O_{15}

V_8O_{15}

V_9O_{17}

$\text{V}_n\text{O}_{2n-1}$

$\text{V}_n\text{O}_{2n+1}$

$\text{Cr}_x\text{V}_{1-x}\text{O}_2$, see VO_2

$\text{Mo}_x\text{V}_{1-x}\text{O}_2$, see VO_2

$\text{W}_x\text{V}_{1-x}\text{O}_2$, see VO_2

$\text{W}_x\text{V}_2\text{O}_5$, see V_2O_5

V–VI–VIII compounds

transition metal-V-VI compounds, general

CoAsS

CoAsSe

CoPS

CoPSe

CoSbS

CoSbSe

CoSbTe

CoSb_{2-x}Te_x

CoSb_{3-x}Te_x

Cr_{1-x}Fe_xSb₂

FeAsS

FeAsSe

FeAsTe, see transition metal-V-VI
compounds, general

$\text{Fe}_x\text{Co}_{1-x}\text{As}_{3-x}\text{S}_x$

$\text{Fe}_x\text{Co}_{1-x}\text{As}_{3-x}\text{Se}_x$

$\text{Fe}_{1-x}\text{Cr}_x\text{As}_2$

FePS

FePSe

FeSbS

FeSbSe, see transition metal-V-VI
compounds, general

FeSbTe

$\text{FeSb}_{2-x}\text{Te}_x$

IrAsS, see transition metal-V-VI
compounds, general

IrAsSe, see transition metal-V-VI
compounds, general

IrAsTe, see transition metal-V-VI
compounds, general

IrBiS, see transition metal-V-VI
compounds, general

IrBiSe, see transition metal-V-VI
compounds, general

IrBiTe, see transition metal-V-VI
compounds, general

IrPS, see transition metal-V-VI
compounds, general

IrPSe, see transition metal-V-VI
compounds, general

IrSbS, see transition metal-V-VI
compounds, general

IrSbSe, see transition metal-V-VI
compounds, general

IrSbTe, see transition metal-V-VI
compounds, general

NiAs_{2-x}S_x

NiAs_{2-x}Se_x

OsAsS

OsAsSe

OsAsTe

OsBiSe

OsPS

OsPSe

OsSbS

OsSbSe

OsSbTe

OsSb_{2-x}Te_x

PdPS

PdPSe

PdPS_{1-x}Se_x

RhAsS, see transition metal-V-VI
compounds, general

RhAsSe, see transition metal-V-VI
compounds, general

RhAsTe, see transition metal-V-VI
compounds, general

RhBiS, see transition metal-V-VI
compounds, general

RhBiSe, see transition metal-V-VI
compounds, general

RhBiTe, see transition metal-V-VI
compounds, general

RuAsS

RuAsSe

RuAsTe

RuPS

RuPSe

RuSbS

RuSbSe

RuSbTe

V–VII compounds

group VII–tetraphosphides, general

MnP_4

ReP_4

TcP_4 , see group VII–tetraphosphides, general

V–VIII compounds

transition metal–V₂ compounds, general

T_{1–x}T'_xV₃ compounds, general

transition metal–V₃ compounds, general

CoAs₂

CoAs_{3–x}Sb_x, see T_{1–x}T'_xV₃ compounds,
general

CoAs₃, see transition metal–V₃
compounds, general

Co_{1–x}Fe_xAs₃, see T_{1–x}T'_xV₃ compounds,
general

Co_{1–x–y}Fe_xNi_yAs₃, see transition metal–V₃
compounds, general

Co_{1–x}Fe_xSb₃, see T_{1–x}T'_xV₃ compounds,
general

Co_{1–x}Ni_xAs₂

Co_{1–x}Ni_xAs₃, see T_{1–x}T'_xV₃ compounds,
general

$\text{Co}_{1-x}\text{Ni}_x\text{Sb}_2$

$\text{Co}_{1-x}\text{Ni}_x\text{Sb}_3$, see $\text{T}_{1-x}\text{T}'_x\text{V}_3$ compounds,
general

CoP_2

$\text{CoP}_{3-x}\text{As}_x$, see $\text{T}_{1-x}\text{T}'_x\text{V}_3$ compounds,
general

CoP_3 see transition metal- V_3
compounds, general

CoSb_2

$\text{CoSb}_{3-x}\text{Bi}_x$, see $\text{T}_{1-x}\text{T}'_x\text{V}_3$ compounds,
general

CoSb_3 , see transition metal- V_3
compounds, general

$\text{Fe}_{1-x}\text{Co}_x\text{As}_2$

$\text{Fe}_{1-x}\text{Co}_x\text{Sb}_2$

$\text{Fe}_{1-x}\text{Ni}_x\text{As}_2$

$\text{Fe}_{1-x}\text{Ni}_x\text{Sb}_2$

FeAs₂

FeP₂

FeP₄

FeSb₂

Ir_{1-x}Pt_xAs₃, see T_{1-x}T'_xV₃ compounds,
general

IrAsSb

IrAs₂

IrAs₃, see transition metal-V₃
compounds, general

IrBi₂, see transition metal-V₂
compounds, general

IrP₂

IrP₃, see transition metal-V₃
compounds, general

IrSb₂

IrSb₃, see transition metal-V₃
compounds, general

$\text{Ni}_{1-x}\text{Pd}_x\text{As}_2$

$\text{Ni}_x\text{Pt}_{1-x}\text{As}_2$, see NiSb_2

NiAs_2

NiP_2

NiSb_2

OsAs_2

OsP_2

OsP_4

OsSb_2

PdAs_2 , see transition metal– V_2
compounds, general

PdPAs

PdP_2

PdSb_2 , see transition metal– V_2
compounds, general

PtAs_2

PtBi_2 , see transition metal– V_2
compounds, general

PtPAs

PtP₂

PtSbBi, see transition metal-V₂
compounds, general

PtSb₂

Rh_{1-x}Pd_xAs₃, see T_{1-x}T'_xV₃ compounds,
general

RhAsSb

RhAs₂

RhAs₃, see transition metal-V₃
compounds, general

RhBi₂

RhP₂

RhP₃, see transition metal-V₃
compounds, general

RhSb₂

RhSb₃, see transition metal-V₃
compounds, general

RuAs₂

RuPAs

RuP₂

RuP₄

RuSb₂

VI-VI compounds

chalcogenides of Cr, Mo, W, general

higher oxides of chromium, general

tungsten oxides, general

Cr_{1-x}Te

CrO_2 , see higher oxides of chromium, general

CrO_3 , see higher oxides of chromium, general

CrS

CrSe

Cr_2O_3

Cr_2S_3

$\text{Cr}_{2+x}\text{Se}_3$

Cr_3Se_4

Cr_5O_{12} , see higher oxides of chromium, general

Cr_6O_{15} , see higher oxides of chromium, general

MoO_3

MoS_2

MoSe_2

MoTe_{2-x}

WO_2 , see tungsten oxides, general

WO_3

WS_2

WSe_2

WTe_2

$\text{W}_{18}\text{O}_{49}$, see tungsten oxides, general

$\text{W}_n\text{O}_{3n-(m-1)}$, see tungsten oxides, general

VI–VII compounds

chalcogenides of Mn, Tc, Re, general

MnO

MnO₂

MnS

MnS₂

MnSe

MnTe

MnTe₂

Mn₂O₃

Mn₃O₄

ReS₂

ReSe₂

ReTe₂

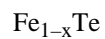
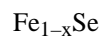
TcS₂

TcSe₂

TcTe₂

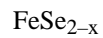
VI–VIII compounds

chalcogenides of Fe, Ru, Os, general



$\text{FeS}_{1-x}\text{Te}_x$, see chalcogenides of Fe, Ru, Os,
general

FeS, see chalcogenides of Fe, Ru, Os,
general



FeSe, see chalcogenides of Fe, Ru, Os,
general



Fe_2O_3

Fe_2Se_3 , see chalcogenides of Fe, Ru, Os,
general

Fe_2Te_3 , see chalcogenides of Fe, Ru, Os,
general

Fe_3O_4

Fe_3S_4 , see chalcogenides of Fe, Ru, Os,
general

Fe_7S_8 , see chalcogenides of Fe, Ru, Os,
general

Fe_7Se_8 , see chalcogenides of Fe, Ru, Os,
general

OsS_2

OsSe_2

OsTe_2

RuS_2

RuSe_2

RuTe_2

chalcogenides of Co, Rh, Ir, general

CoO

Co₃O₄

IrS₂

IrS₃

IrSe₂

IrSe₃, Ir_{2/3}Se₂

RhS₃, see also Rh_{2/3}S₂

RhSe₂

RhSe₃, Rh_{2/3}Se₂

Rh₂S₃

Rh_{2/3}S₂

chalcogenides of Ni, Pd, Pt, general

Ni_{1-x}O, see NiO

Ni_{1-x}S

NiO

NiO₂, see NiO

NiS₂

Ni₂O₃, see NiO

Ni₃O₄, see NiO

PdO

PdS

PdS₂

PdSe

PdSe₂

Pt_{1-x}S₂

PtS

PtSe₂

binary rare-earth compounds

rare-earth hydrides



rare-earth monpnictides and monochalcogenides

YP

LaP

SmP

ErP

LuP

SmS

SmSe

$\text{SmS}_{1-x}\text{Se}_x$

SmTe

EuO

EuS

EuSe

EuTe

TmTe

$\text{TmSe}_{1-x}\text{Te}_x$

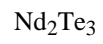
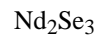
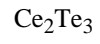
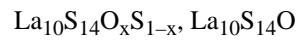
$\text{Tm}_{1-x}\text{Eu}_x\text{Se}$

YbS

YbSe

YbTe

rare-earth polychalcogenides



Sm_2O_3

Sm_2S_3

Sm_2Se_3

Eu_2O_3

Eu_2Se_3

Gd_2O_3

Gd_2S_3

Gd_2Se_3

Tb_2O_3

Tb_2S_3

Dy_2O_3

Dy_2S_3

Dy_2Se_3

Ho_2O_3

Ho_2S_3

Er_2O_3

Er_2S_3

Tm₂O₃

Tm₂S₃

Tm₂Se₃

Tm₂Te₃

Yb₂O₃

Yb₂S₃

Lu₂S₃

Sm₃S₄

Sm₃Se₄

Sm₃Te₄

Eu₃S₄

Eu₃Se₄

Eu₃Te₄

LaS₂

LaTe₂

LaTe₃

CeS₂

PrS₂

rare-earth chlorides

