

Non-Tetrahedrally Bonded Binary Compounds II

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List of ternary actinide compounds

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

AT₃ B₂	AT₂ B₂	AT₄ B₄
ATB₂	ATB₄	A₂ TB₆

List of rare earth (RE) compounds

RE ₅ B ₂ C ₅	structural chemistry, magnetic behavior
REB ₂ C ₂	electrical properties, physical properties, magnetic properties, crystal structure
RE _{5-x} Co _{2+x} B ₆	preparation, crystal structure, space group, lattice parameters, interatomic distances, density
RE _{5-x} Fe _{2+x} B ₆	preparation, crystal structure, space group, lattice parameters
REOs _{4-x} Ir _x B ₄	preparation, crystal structure
RE ₂ OsB ₅	structural chemistry, magnetic behavior
RERh ₄ B ₄	magnetic transition temperature, crystal structure, magnetic relaxation, superconductivity
RERh ₄ B ₄	preparation, crystal structure
RE ₂ RuB ₆	structural chemistry, magnetic behavior
RERu ₄ B ₄	preparation, crystal structure
RERh _{4-x} Ir _x B ₄	phase diagram, antiferromagnetism

El. System	Substance	El. System	Substance	El. System	Substance	El. System	Substance	El. System	Substance	El. System	Substance	El. System	Substance
Al-B	Al_x B₁₀₅	Al-B-Lu	Lu₂ AlB₆	As-Fe-S	Ni_{1-x} Fe_x As₃	As-Ru-Sb	RuAsSb	B-C-Li	LaB₂ C₂	B-Cl-H	BCl₃	B-Cr-W	Cr_{1-x} W_x B₄
	Al₃ B₃₂		LuAlB₁₄		FeAsS		RuAsSe		LiBC		BH_m Cl_n		Cr_{3-x} W_x B₄
	AlB₁₀		LuAlB₄		FeAsSe		RuAsTe		LuNi₂ B₂ C		Co₇₇ B₂₃		Cr₂ WB₂
	AlB₁₂		LuAlB₆		FeAsTe		B		Mo₂ BC		Co_{100-x} B_x		YCrB₄
	AlB₂		Al_x Mg_y B₂₂		IrAs₂		BaB₆		Mo_{2-x} Nb_x BC		Co₂ B		Cu_x B₁₀₅
	AlB₃₁		MgAlB₁₄		IrAs₃		Na_x Ba_{1-x} B₆		Mo_{2-x} Rh_x BC		CoB		DyB₁₂
	AlB₄		Sc_x Al_y B₂		Ir_{1-x} Os_x As₃		Sm_{1-x} Ba_x B₆		Mo_{2-x} Ta_x BC		CoB₁₂		DyB₂
Al-B-Be	B₃₂ Al₃	Al-B-Si	Al₃ SiB₄₈	As-Ir-Pt	Ir_{1-x} Pt_x As₃	B-Be	B₁₂ Be	B-C-Mo-W	Mo_{2-x} W_x BC	B-Co-Er	Co₄ ErB	B-Cu	DyB₄
	Al_x Be_y B₂₂		TbAlB₁₄		IrAsS		B₁₂ Be₂		Mo_{2-x} Zr_x BC		Co_{3-x} Fe_x B		DyB₅₀
	Al_x Be_y B₁₂		TmAlB₁₄		IrAsSb		Be₂ B		B-C-Mo-Zr		Fe₇₅ Co₅ B₂₀		DyB₆
	AlBeB₂		TmAlB₄		IrAsSe		Be₄ B₅		BC₃ N		Fe₈₀ Co₅ B₁₅		DyB₆₆
Al-B-C	B₂₄ BeAl	Al-B-Y	YAlB₁₄	As-Ir-Te	IrAsTe	As-Ni	BeB₂	B-C-Na	BC₂ N	B-Co-Gd	Gd₃ Co₁₁ B₄	B-Dy	DyB₂
	Al₃ BC		Yb₂ AlB₆		IrAsTe		BeB₂		BCN		GdCo₁₂ B₆		DyB₇
	Al₃ BC₃	Al-B-Yb	YbAlB₁₄	As-Ni-Pd	Ni_{1/2} Pd_{1/2} As₂		BeB₃	B-C-Nb	B₂ C₄ N₂	B-Co-Ho	Co₄ HoB	B-Dy-Rh	DyRh₄ B₄
	Al_x C₈ B₅₁		YbAlB₄		Ni_{1-x} Pd_x As₂		BeB₄		B₂ C₅ N		Co₁₄ La₂ B		DyRuB₄
	Al₂ C₆ B₅₁	Al-Co-Sb	Co_{1-x} Al_x Sb₃	As-Ni-Pt	Ni_x Pt_{1-x} As₂	B-Be-C	BeB₆	B-C-Sc	NaB₅ C	B-Co-La	Co₄ LaB	B-Dy-Sm	Sm_{1-x} Dy_x B₆
	Al₃ C₂ B₄₈		Al_x V_{1-x} O₂		NiAs_{2-x} S_x		BeB₉		Nb₄ B₃ C₂		Co₁₄ La₂ B		ErB₁₂
	Al₄ B₃ C_{3-x}	Am-B	AmB₄	As-Ni-Se	NiAs_{2-x} Se_x	B-Be-N	BeB₂ C₂	B-C-U	Sc_x B_y C_z	B-Co-Nb	Nb₃ Co₄ B₇	B-Er	ErB₄
	Al₈ B₄ C₇		AmB₆		OAsSe		Be_{1/2} B₅ N		Sc₂ BC₂		Co₄ PrB		ErB₅₀
	AlB₂₄ C₄	As-B	B₁₂ As₂	As-O-Se	OsAs₂	B-Br	BBr₃	B-C-Th	ThB₂ C	B-Co-U	UCO₃ B₂	B-Er-Fe	Er₃ FeB₇
	AlC₂ B₁₂		B₁₃ As₂		OsAs₂		BBBr₃		UB_x C_y		Co₄ YB		ErIr₄ B₄
	AlC₄ B₂₄	As-Co	B₆ As	As-Os-Ru-S	Ru_{1/2} OS_{1/2} AsS	B-C	B_x C_{1-x}	B-Ca	CaB₆	B-Co-Pr	Co₁₄ Pr₂ B	B-Er-Rh	ErB₆₆
	AlC₄ B₄₀		CoAs₂		OsAsS		B_x C_y		CaB₆		Co₄ PrB		ErRh₃ B
	B₁₂ AlC₂	As-Co-Fe	CoAs₃	As-Os-Se	OsAsTe	B-Ce	B₂₅ C	B-Ca-Sm	CdB₄	B-Co-Y	Cr₅ B₃	B-Er-Ir	ErRh₃ B₂
	B₁₂ AlC₄		Co_{1-x} Fe_x As₃		PdPAS		B₂ C		CeB₄		Cr₅ B₃		ErRh₄ B₄
	B₂₄ AlC₄	As-Co-Fe-Ni	Fe_{1-x} Co_x As₂	As-P-Pd	PtPAS	B-Ce-Ce	B₅₀ C₂	B-Cd	CeB₆	B-Cr	Cr₅ B₃	B-Er-Re	Er₃ ReB₇
	B₄₀ AlC₄		Co_{1-xy} Fe_x Ni_y As₃		RuPAS		B₅₁ C		CeB₆		Cr₅ B₃		ErRh₃ B
	B₄ AlC_{0.25}	As-Co-Fe-S	CoFe_{x/2} Ni_{x/2} As₃	As-P-Pt	PdAs₂		B₈ C	B-Ce-Co	Co₄ CeB	B-Co-U	CrB	B-Er-Ru	ErRuB₄
	B₃ AlC_{0.25}		CoFe_{x/2} Ni_{x/2} As₃		PtPAS		BC₃		Co₄ CeB		CrB₂		EuB₄
	B₃ AlC_x	As-Co-Fe-Se	Fe_x Co_{1-x} As_{3-x} S_x	As-P-Ru	PdAs₂	B-C-Eu	Ce₁₀ B₉ C₁₂	B-Ce-Nb	CeCo₇ Fe₂ B	B-Co-Y	CrB₂	B-Eu	EuB₆
	B₅₁ Al₂ C₈		Fe_x Co_{1-x} As_{3-x} Se_x		Rh_{1-x} Pd_x As₃		Ce₅ B₂ C₆		CeCoFe₃ B		CrB₄		EuB₆
	B₅₁ AlC₈	As-Co-Ni	Co_{1-x} Ni_x As₂	As-Pd	RhAs₂	B-C-Gd	Ce₅ B₄ C₅	B-Ce-Cr	CeCr₇ B₆	B-Co-La	Cr₅ B₃	B-Eu-La	La_x Eu_{1-x} B₆
	C₄ AlB₂₆		Co_{1-x} Ni_x As₃		RhAs₃		Ce₅ B₄ C₅		CeCr₇ B₆		Cr₅ B₃		Sm_{1-x} Eu_x B₆
Al-B-Cr-Mo	Mo_x Cr_{1-x} AlB	As-Co-P	CoP_{3-x} As_x	As-Pd-Rh	Rh_{1-x} Pd_x As₃	B-C-Gd	EuB_{6-x} C_x	B-Ce-Ir	La_{1-x} Ce_x B₆	B-Cr-Mo	Cr_{1-x} Mo_x B₄	B-Eu-Sm	Fe₂ B
Al-B-Cu	Al_x Cu_y B₂₅	As-Co-S	CoAsS	As-Rh-S	RhAsS	B-C-Gd	Gd₁₅ B₄ C₁₂	B-Ce-La	Ni₄ CeB		Cr_{3-x} Mo_x B₄	B-F	BF₃
Al-B-Dy	DyAlB₁₄	As-Co-Sb	CoAs_{3-x} Sb_x	As-Rh-Sb	RhAsSb	B-C-Hf-Mo	Gd₅ B₂ C₅	B-Ce-Ni	CeOs₃ B₂		Mo₂ CrB₂	B-Fe	Fe₈₀ B₂₀
Al-B-Er	ErAlB₁₄	As-Co-Se	CoAsSe	As-Rh-Se	RhAsSe		Mo_{2-x} Hf_x BC	B-Ce-Os	CeRh₃ B₂	B-Cr-Ni	Cr₂ NiB₂		FeB₂
	ErAlB₄	As-Cr-Fe	Fe_{1-x} Cr_x As₂	As-Rh-Te	RhAsTe	B-C-La	La₁₀ B₉ C₆	B-Ce-Rh	CeRu₅ B₂	B-Cr-Ta	Cr_{3-x} Ta_x B₄	B-Fe-Ho	Ho₅ FeB₇
Al-B-Ho	HoAlB₁₄	As-Fe	FeAs₂	As-Ru	RuAs₂		La₁₅ B₁₄ C₁₉	B-Ce-Ru	B₄ Cl₄	B-Cr-Th	ThCr₂ B₆	B-Fe-Mn	Fe₇₅ Mn₅ B₂₀
Al-B-Li	LiAlB₁₄	As-Fe-Ni	Fe_{1/2} Ni_{1/2} As₂	As-Ru-S	RuAsS		La₅ B₂ C₆	B-Cl	B₉ Cl₉		ThCrB₄		Fe₈₀ Mn₅ B₁₅

El. System	Substance	El. System	Substance	El. System	Substance	El. System	Substance	El. System	Substance	El. System	Substance	El. System	Substance
B-Fe-Mo	Mo₂ FeB₂	B-Ir	IrB_y		Mn₃ B₄		NbB₂	B-Pm	PmB₄	B-Ru-Tm	TmRuB₄	B-Sr	SrB₆
B-Fe-Nd	Fe₁₄ Nd₂ B	B-Ir-La	LaIr₃ B₂		Mn₄₈ B₄₂	B-Nb-V	V_{2-x} Nb_x B₃		PmB₆	B-Ru-U	URu₃ B₂	B-Ta	Ta₂ B
B-Fe-Ni	Fe₇₅ Ni₅ B₂₀	B-Ir-Th	ThIr₃ B₂		Mn₄ B	B-Nd	NdB₄	B-Pr	PrB₄		URuB₄		Ta₃ B₂
	Fe₈₀ Ni₅ B₁₅	B-Ir-Tm	TmIr₄ B₄		MnB		NdB₆		PrB₆	B-Ru-Y	YRuB₂		Ta₃ B₄
B-Fe-Si	Fe₇₈ B₁₃ Si₉	B-Ir-U	UIr₃ B₂		MnB₂		NdB₆₆	B-Pr-Rh	PrRh_{4.8} B₂		YRuB₄		Ta₅ B₆
B-Fe-Tb	Tb₃ FeB₇	B-K	KB₆		MnB₂₃	B-Nd-Rh	NdRh₄ B₄	B-Pt	Pt₂ B	B-S	(B₂ S₃)_n		TaB
B-Fe-Ti	Fe₇₅ Ti₅ B₂₀	B-La	LaB₄		MnB₄	B-Ni	Ni₂ B		Pt₃ B		B₁₂ S	B-Tb	TbB₁₂
	Fe₈₀ Ti₅ B₁₅		LaB₆	B-Mn-Y	Y₃ MnB₇		Ni₃ B		Pt₄ B		B₁₂ S_{2-x}		TbB₂₅
B-Fe-V	Fe₇₅ V₅ B₂₀	B-La-Nd	La_{1-x} Nd_x B₆	B-Mo	Mo_{1-x} B₃		Ni₄ B₃	B-Pu	PuB		B₁₂ S₂		TbB₄
	Fe₈₀ V₅ B₁₅	B-La-Ni	Ni₄ LaB		Mo₂ B		NiB		PuB₁₂		B₂ S₃		TbB₅₀
B-Fe-Y	Fe₁₄ Y₂ B	B-La-Pr	La_{1-x} Pr_x B₆		Mo₂ B_{5-y}	B-Ni-Pr	NiB₂₅		PuB₂		B₄ S		TbB₆
	Y₃ FeB₇	B-La-Rh	LaRh₃ B₂		MoB	B-Ni-Y	Ni₄ YB		PuB₄		BS		TbB₆₆
B-Gd	GdB_{66-x}	B-La-Ru	LaRu_{2.7} B₂		MoB₂	B-Np	NpB₁₂		PuB₆		(BS₂)_n	B-Tc	Tc₃ B
	GdB_x	B-La-Sm	Sm_{1-x} La_x B₆		MoB₄		NpB₂		PuB₆₆	B-Re	ScB₁₂		Tc₇ B₃
	GdB₁₂	B-Li	Li₂ B₁₂	B-Mo-Ni	Mo₂ NiB₂		NpB₄		Re₃ B		ScB₂		TcB₂
	GdB₄		Li₃ B₁₂	B-Mo-Ti	Mo_{1-x} Ti_x B₂		NpB₆		Re₇ B₃		ScB₄	B-Th	ThB₄
	GdB₅		Li₃ B₁₄	B-Mo-U	U₂ MoB₆	B-O	B₁₂ O₂		ReB₂	B-Se	B₁₂ Se_{2-x} B_x		ThB₆
	GdB₆		Li₅ B₄	B-Mo-W	Mo₂ WB₂		B₂ O	B-Re-Tb	Tb₃ ReB₇		B₁₃ Se		ThB₆₆
	GdB₆₆		Li₆ B₁₉	B-N	B₁₂ N₂		B₂ O₃	B-Re-Tm	Tm₃ ReB₇		B₂ Se₃		ThB₇₆
B-Gd-Mn	Gd₃ MnB₇		LiB₁₂		B₂₅ N		B₆ O	B-Re-U	U₂ ReB₆	B-Si	B_{12-x} Si_x Si₂	B-Th-U	U_{1-x} Th_x B₄
B-Gd-Re	Gd₃ ReB₇		LiB₁₃		B₃₆ N₂₄		B₇ O	B-Re-Y	Y₃ ReB₇		B₁₄ Si	B-Ti	Ti₂ B₅
B-Gd-Rh	GdRh₃ B		LiB₆		B₅₀ N₂		(BO)_x	B-Rh	Rh₅ B₄		B₃₆ Si		Ti₃ B₄
B-Gd-Ru	GdRuB₄	B-Li-O	LiBO₂		B₆ N	B-Nb	NbBN		Rh₇ B₃		Si_{1-x} B_x		TiB
B-Gd-Sm	Sm_{1-x} Gd_x B₆	B-Li-Pd	Li₂ Pd₃ B	B-N-Nb	TiB_x N_{1-x}		Os₂ B₃		RhB_{1.1}		Si₁₁ B₃₁		TiB₂
B-Ge	B₉₀ Ge	B-Li-Pt	LiPt₃ B	B-N-Ti	UBN		OsB_{1.2}	B-Rh-Ru-Y	YRh_{4-x} Ru_x B₄		SiB_{2.89}		(B₁₂)₄ B₂ Ti_x
	GeB₉₀	B-Lu	LuB₁₂	B-N-U	Na₃ B₂₀		OsB₂	B-Rh-Sm	SmRh₃ B		SiB₁₂	B-Tm	TmB₁₂
B-H	a-(BH)		LuB₂	B-Na	NaB_{0.8} B₁₄		OsB_{1.6}		SmRh₄ B₄		SiB₁₄		TmB₄
	B₁₂ H₁₂		LuB₄		NaB₁₅	B-Os-Sc	ScOsB₂		ThRh₄ B₄		SiB₃		TmB₆₆
B-Hf	HfB		LuB₆₆		NaB₆	B-Os-Th	ThOs₃ B₂	B-Rh-Th	TmRh₄ B₄		SiB₄		UB₁₂
	HfB₂	B-Lu-Os	LuOs₃ B₂	B-Na-Pt	Na₃ Pt₆ B₅		U₂ OsB₆	B-Rh-Tm	YRh₄ B₄		SiB₆		UB₂
B-Ho	HoB₁₂	B-Lu-Rh	LuRh₄ B₄		NaPt₃ B_{1+x}	B-Na-Th	Na_x Th_{1-x} B₆	B-Rh-Yb	YbRh₃ B	B-Si-Tb	TbB₄₁ Si_{1.2}		UB₄
	HoB₄	B-Lu-Ru	LuRuB₂		Na_x Th_{1-x} B₆	B-Nb	Nb₂ B₃	B-Ru	Ru₁₁ B₈	B-Si-Y	YB_x Si_{1+y}	B-U	UB₃
	HoB₅₀		LuRuB₄		Nb₂ B₅		Nb₇ B₅		Ru₂ B₃		YB₄₁ Si_{1.2}		UB₂
	HoB₆₆	B-Mg	Mg₂ B₁₄		Nb₃ B₂		Nb₃ B₄		Ru₇ B₃		YB₄₄ Si_{1.0}		UB₃
B-Ho-Ir	HoIr₄ B₄		MgB₁₂		Nb₅ B₆		Nb₅ B₆	B-Pd	RuB₂	B-Sm	SmB₄		V₅ B₆
B-Ho-Re	Ho₃ ReB₇		MgB₂		NbB		NbB		RuB_{1.1}		SmB₆		V₈₂ B₁₈
B-Ho-Ru	HoRu₄ B₄		MgB₄				Nb₅ B₆		RuB₂		SmB₆₆		V₈₄ B₁₆
	HoRuB₄		MgB₆				NbB		Pd₃ B		SmB₆₆		V₈₆ B₁₄
B-I	BI₃	B-Mn	Mn₂ B				NbB		Pd₅ B₂		Sm_{1-x} Yb_x B₆		

El. System	Substance	El. System	Substance	El. System	Substance	El. System	Substance	El. System	Substance	El. System	Substance	El. System	Substance
B-W	VB	Bi-Ru-Se	RuBiSe	Co-P-S	CoPS	Er-S	Er₇ S₃		Fe₇ Se₈		IrP₃	Mo	Mo
	VB₂	C-Mo	Mo₂ C	Co-P-Se	CoPSe	Eu-H	EuH₂		Fe_{1-x} Se	Ir-P-S	IrPS	Mo-O	MoO₃
	W₂ B		MoC	Co-Pb-Sb	CoSb_{3-x} Pb_x	Eu-O	Eu₂ O₃		FeSe_{2-x}	Ir-P-Se	IrPSe	Mo-O-V	Mo_x V_{1-x} O₂
	W₂ B₅	C-Nb	Nb₂ C	Co-S-Sb	CoSbS		EuO		FeSe₂	Ir-S	IrS₂	Mo-P	MoP₄
	WB		NbC	Co-Sb	CoSb₂	Eu-S	Eu₃ S₄	Fe-Si	FeSi₂		IrS₃	Mo-Re-Si	Re_{1-x} Mo_x Si₂
	WB₁₂	C-Ta	Ta₂ C		CoSb₃		EuS	Fe-Te	Fe_{1-x} Te	Ir-S-Sb	IrSbS	Mo-S	MoS₂
B-Y	WB₂		TaC	Co-Sb-Se	CoSb_{3-x} Se_x	Eu-Se	Eu₂ Se₃		FeTe₂	Ir-S-Sn	Ir₂ Sn₃ S₃	Mo-Se	MoSe₂
	WB₄	C-V	V₂ C		CoSbSe		Eu₃ Se₄		Fe₂ Te₃		IrSn_{1.5} S_{1.5}	Mo-Te	MoTe_{2-x}
	YB_{66-x}		VC	Co-Sb-Si	CoSb_{3-x} Si_x		EuSe	Ga-O-V	Ga_x V_{1-x} O₂	Ir-Sb	IrSb₂	Nb	Nb
	YB₁₂	Ce-Fe-P	CeFe₄ P₁₂	Co-Sb-Sn	CoSb_{3-x} Sn_x	Eu-Se-Tm	Tm_{1-x} Eu_x Se	Gd-H	GdH_x		IrSb₃	Nb-O	Nb₂ O₅
	YB₂	Ce-Fe-Sb	CeFe₄ Sb₁₂	Co-Sb-Te	CoSb_{2-x} Te_x	Eu-Te	Eu₃ Te₄	Gd-O	Gd₂ O₃	Ir-Sb-Se	IrSbSe		NbO₂
	YB₃₅	Ce-H	CeH_x		CoSb_{3-x} Te_x		EuTe	Gd-S	Gd₂ S₃	Ir-Sb-Te	IrSbTe		Nb₂ O_{5-x}
	YB₄		CeD_x		CoSbTe	F-O-V	VO_{2-x} F_x	Gd-Se	Gd₂ Se₃	Ir-Se	IrSe₂		Nb₁₂ O₂₉
	YB₅₀	Ce-S	Ce₂ S₃	Co-Sb-Ti	Co_{1-x} Ti_x Sb₃	Fe-Ni-Sb	Fe_{1/2} Ni_{1/2} Sb₂	Ge-Ir-S	Ir₂ Ge₃ S₃		Ir_{2/3} Se₂		Nb₂₂ O₅₄
	YB₅₆		CeS₂	Co-Sb-Zn	Co_{1-x} Zn_x Sb₃		Fe_{1/2} Ni_{1/2} Sb₃		IrGe_{1.5} S_{1.5}		Ir₂ Se₃		Nb₂₅ O₆₂
	YB₆	Ce-Se	Ce₂ Se₃	Cr-Fe-Sb	Cr_{1-x} Fe_x Sb₂		Fe_{1-x} Ni_x Sb₂	Ge-Ir-Se	Ir₂ Ge₃ Se₃		IrSe₂		Nb₃₂ O₇₉
	YB₆₂	Ce-Te	Ce₂ Te₃	Cr-O	Cr_x O_y	Fe-O	Fe₂ O₃		IrGe_{1.5} Se_{1.5}	La-O	La₂ O₃	Nb-O-V	Nb_x V_{1-x} O₂
	YB₆₆	Cl-Gd	Gd₂ Cl₃		Cr₂ O₃		Fe₃ O₄	Ge-Os	Os₂ Ge₃	La-O-S	La₁₀ S₁₄ O₂ , La₁₀ S₁₄ O_x S_{1-x}	Nb-S	NbS₃
B-Yb	YbB₁₂	Cl-La	La₂ Cl₃		CrO₂		FeO, Fe_{1-x} O	Ge-Pt-Se	PtGeSe	La-P	LaP	Nb-Se	NbSe₃
	YbB₄	Cl-Lu	Lu₂ Cl₃	Cr-O-V	Cr_x V_{1-x} O₂	Fe-O-V	Fe_x V_{1-x} O₂	Ge-Re-S	ReGe_{1.5} S_{1.5}	La-S	La₂ S₃	Nd-O	Nd₂ O₃
	YbB₆	Cl-Tb	Tb₂ Cl₃	Cr-P	CrP₄	Fe-P	FeP₂	Ge-Rh-S	Rh₂ Ge₃ S₃		LaS₂	Nd-S	Nd₂ S₃
	YbB₆₆	Cl-Tm	Tm₂ Cl₃	Cr-Re-Si	Re_{1-x} Cr_x Si₂		FeP₄	Ge-Rh-Se	RhGe_{1.5} Se_{1.5}	La-Se	La₂ Se₃	Nd-Se	Nd₂ Se₃
B-Zn	B₄₈ B₇ Zn₂	Cl-Y	Y₂ Cl₃	Cr-S	Cr₂ S₃	Fe-P-S	FePS	Ge-Ru	Ru₂ Ge₃	La-Te	La₂ Te₃	Nd-Te	Nd₂ Te₃
	ZnB₂₂	Co-B	Co₃ B		CrS	Fe-P-Se	FePSe	H-Ho	HoH₃		LaTe₂	Ni-O	NiO
B-Zr	ZrB	Co-Cu-Sb	Co_{1-x} Cu_x Sb₃	Cr-Sb	CrSb₂	Fe-P-Th	ThFe₄ P₁₂	H-La	LaH_x		LaTe₂		NiO₂
	ZrB₁₂	Co-Fe-Sb	Co_{1-x} Fe_x Sb₃	Cr-Se	CrSe	Fe-S	Fe₃ S₄		LaD_x	Lu-P	LuP		Ni₂ O₃
	ZrB₂		Fe_{1-x} Co_x Sb₂		Cr_{2+x} Se₃		Fe₇ S₈	H-Nd	NdH_x	Lu-S	Lu₂ S₃		Ni₃ O₄
Bi-Co-Sb	CoSb_{3-x} Bi_x	Co-Ge-S	Co₂ Ge₃ S₃		Cr₂ Se₃		FeS₂	H-Pr	PrH_x	Mn-O	Mn₂ O₃	Ni-P	NiP₂
Bi-Ir	IrBi₂		CoGe_{1.5} S_{1.5}		Cr₃ Se₄		Fe_{1-x} S	H-Y	YH_x		Mn₃ O₄	Ni-S	Ni_{1-x} S
Bi-Ir-S	IrBiS	Co-Ge-Sb	CoSb_{3-x} Ge_x		CrSi₂		FeS		YD_x		MnO		NiS₂
Bi-Ir-Se	IrBiSe	Co-Ge-Se	Co₂ Ge₃ Se₃	Cr-Te	Cr_{1-x} Te		FeSi_{1-x}	H-Yb	YbH_x		MnO₂	Ni-Sb	NiSb₂
Bi-Ir-Te	IrBiTe		CoGe_{1.5} Se_{1.5}	Dy-H	DyH₃	Fe-S- Sb	FeSbS	Hf-S	Hf₂ S₃	Mn-P	MnP₄	O-Pd	PdO
Bi-Os-Se	OsBiSe	Co-Mn-P	Mn_{1/2} Co_{1/2} P₂	Dy-O	Dy₂ O₃	Fe-S-Te	FeS_{1-x} Te_x		HfS₂	Mn-Re-Si	Re_{1-x} Mn_x Si₂	O-Re-V	Re_x V_{1-x} O₂
Bi-Pt	PtBi₂	Co-Ni-Sb	Co_{1-x} Ni_x Sb₂	Dy-S	Dy₂ S₃	Fe-Sb	FeSb₂		HfS₃	Mn-S	MnS	O-Sm	Sm₂ O₃
Bi-Pt-Sb	PtSbBi		Co_{1-x} Ni_x Sb₃	Dy-Se	Dy₂ Se₃	Fe-Sb-Se	FeSbSe	Hf-Se	Hf₂ Se₃		MnS₂	O-Ta	Ta₂ O₅
Bi-Rh	RhBi₂	Co-O	Co₃ O₄	Er-H	ErH₃	Fe-Sb-Te	FeSb_{2-x} Te_x		HfSe₂	Mn-Se	MnSe	O-Tb	Tb₂ O₃
Bi-Rh-S	RhBiS		CoO		ErD_x		FeSbTe	Ho-O	Ho₂ O₃	Mn-Si	Mn_n Si_{2(n-m)}	O-Ti	Ti_n O_{2n-1} , n>=3
Bi-Rh-Se	RhBiSe	Co-P	CoP₂	Er-O	Er₂ O₃	Fe-Se	FeSe	Ho-S	Ho₂ S₃	Mn-Te	MnTe		Ti_x O_y
Bi-Rh-Te	RhBiTe		CoP₃	Er-P	ErP		Fe₂ Se₃	Ir-P	IrP₂		MnTe₂		Ti₂ O₃

El. System	Substance	El. System	Substance	El. System	Substance	El. System	Substance
	TiO₂		RuP₄	Ru-S	RuS₂	Se-W	WSe₂
	Ti₄O₇	P-Ru-S	RuPS	Ru-S-Sb	RuSbS	Se-Yb	YbSe
O-Ti-V	Ti_xV_{1-x}O₂	P-Ru-Se	RuPSe	Ru-Sb	RuSb₂	Se-Zr	Zr_{1+x}Se₂
O-Tm	Tm₂O₃	P-Ru-Th	ThRu₄P₁₂	Ru-Sb-Se	RuSbSe		Zr₂Se₃
O-V	V_nO_{2n+1}, n>=3	P-Sm	SmP	Ru-Sb-Te	RuSbTe		ZrSe₃
	V₂O₃	P-Tc	TcP₄	Ru-Se	RuSe₂	Sm-Te	SmTe
	V₂O_{3+x}	P-Y	YP	Ru-Si	Ru₂Si₃		Sm₃Te₄
	V₂O₅	Pd-S	PdS	Ru-Sn	Ru₂Sn₃	Ta	Ta
	V₂O_{5-x}		PdS₂	Ru-Te	RuTe₂	Tc-Te	TcTe
	VO	Pd-Sb	PdSb₂	S-Se-Sm	SmS_{1-x}Se_x		TcTe₂
	VO₂	Pd-Se	PdSe	S-Sm	Sm₂S₃	Te-Ti	TiTe₂
	VO₂, VO_{2-x}		PdSe₂		Sm₃S₄	Te-Tm	Tm₂Te₃
O-V-W	W_xV₂O₅	Pr-S	Pr₂S₃		SmS		TmTe
	W_xV_{1-x}O₂		PrS₂	S-Ta	TaS₂	Te-Yb	YbTe
O-W	W_xO_y	Pr-Se	Pr₂Se₃		TaS₃	V	V
O-Yb	Yb₂O₃	Pr-Te	Pr₂Te₃	S-Tb	Tb₂S₃	W-Se	WSe₂
Os-P	OsP₂	Pt-S	Pt_{1-x}S₂	S-Tc	TcS	W-Te	WTe₂
Os-P-S	OsPS		PtS		TcS₂		
Os-P-Se	OsPSe	Pt-Sb	PtSb₂	S-Ti	Ti_{1+x}S₂		
Os-S	OsS₂	Pt-Se	PtSe		TiS_{3-x}		
Os-S-Sb	OsSbS		PtSe₂		TiS₂		
Os-Sb	OsSb₂	Rb-Sb	RhSb₂	S-Tm	Tm₂S₃		
Os-Sb-Se	OsSbSe	Re-S	ReS	S-V	VS₄		
Os-Sb-Te	OsSb_{2-x}Te_x		ReS₂	S-W	WS₂		
Os-Se	OsSe₂	Re-Se	ReSe	S-Yb	Yb₂S₃		
Os-Si	Os₂Si₃		ReSe₂		YbS		
	OsSi₂	Re-Si	ReSi₂	S-Zr	Zr₂S₃		
Os-Te	OsTe₂	Re-Si-Ti	Re_{1-x}Ti_xSi₂		ZrS_{3-x}		
P-Pd	PdP₂	Re-Te	ReTe₂		ZrS₂		
P-Pd-S	PdPS	Rh-S	Rh_{2/3}S₂	Se-Ti	TiSe₂		
P-Pd-S-Se	PdPS_{1-x}Se_x	Rh-S-Sb	RhSbS	Se-Sm	Sm₂Se₃		
P-Pd-Se	PdPSe	Rh-Sb	RhSb₂		Sm₃Se₄		
P-Pt	PtP₂		RhSb₃		SmSe		
P-Re	ReP₄	Rh-Sb-Se	RhSbSe	Se-Ta	TaSe₂		
P-Rh	RhP₂	Rh-Sb-Te	RhSbTe	Se-Tc	TcSe		
	RhP₃	Rh-Se	Rh₂Se₃		TcSe₂		
P-Rh-S	RhPS		RhSe_{2-x}	Se-Te-Tm	TmSe_{1-x}Te_x		
P-Rh-Se	RhPSe		RhSe₂	Se-Ti	Ti_{1+x}Se₂		
P-Ru	RuP₂		RhSe₃	Se-Tm	Tm₂Se₃		

Al-B

Al(x)B105	structural phase
Al3B32	preparation, crystal structure
AlB10	preparation, crystal structure, electrical conductivity, lattice parameters, energy gap, electron density of states
AlB10	crystal structure, structural phases, space group
alpha-AlB12	preparation, crystal structure, space group, lattice parameters, atomic positions, deformation of electron densities, valence electron distribution, density of states, energy gap, activation energy, optical absorption, electrical conductivity, IR active phonon wavenumbers, phonon absorption spectrum, Raman spectrum, thermoelectric power, resistivity, dielectric constant, thermal conductivity, entropy, density, melting point, fracture toughness
alpha-AlB12	crystal structure, lattice parameters, energy gaps, IR-active phonon wavenumbers, optical absorption, electrical and thermal conductivity, thermopower, Debye temperature, density, microhardness, melting point
gamma-AlB12	preparation, crystal structure, space group, lattice parameters, occupancies of metal sites, energy gap, IR active phonon wavenumbers, absorption spectra, electrical conductivity, microhardness, microstrength, microbrittleness, fracture toughness
AlB12	alpha-tetragonal boron structure group: crystal structure
AlB12	beta-tetragonal boron structure group: crystal structure
AlB12	orthorhombic gamma-AlB12 structure group: crystal structure
AlB2	preparation, crystal structure, band structure, thermal and electrical conductivity, space group, lattice parameters, electron density of states, resistivity, Hall constant, entropy
AlB31	Solid solution of Al in b-rhombohedral boron
B31Al	beta-rhombohedral boron structure group: crystal structure
B32Al3	beta-rhombohedral boron structure group: crystal structure

Al-B -Be

Al(x)Be(y)B22	crystal structure, space group, atomic positions, lattice parameters, energy gap, activation energy, trap density, electrical conductivity, I-U characteristics, lattice absorption spectrum, dielectric constants
Al(x)Be(y)B12	properties of alpha-AlB12 type compounds: lattice parameters, electrical conductivity, microhardness
Al(x)Be(y)B22	beta-tetragonal boron structure group: crystal structure
AlBeB22	lattice parameters, energy gap, IR active phonon wavenumbers, phonon absorption spectrum
B24BeAl	alpha-tetragonal boron structure group: crystal structure

Al-B -C

Al3BC	preparation, crystal structure, space group, lattice parameters, energy gap, electron density of states, phonon wavenumbers, density
Al3BC3	preparation, crystal structure, space group, lattice parameters, energy gap, electron density of states, phonon wavenumbers, density, IR transmission spectrum
Al(x)C8B51	preparation
Al2C9B51	crystal structure, structural phases, space group
Al3C2B48	preparation, crystal structure, space group, lattice parameters, atomic positions, reversible phase transition, transition energies, phonon wavenumbers, phonon spectra, activation energies, electrical conductivity, absorption coefficient, thermoelectric power, Seebeck effect, microhardness, density, microstrength, microbrittleness, fracture toughness,
Al3C2B48	alpha-tetragonal boron structure group: crystal structure
Al4BxC(3-x)	preparation, crystal structure, space group, lattice parameters, phonon wavenumbers, optical transmission spectrum
Al8B4C7	preparation, electrical conductivity, thermoelectric power, Seebeck effect
Al8B4C7	electrical conductivity, thermoelectric power
AlB24C4	electrical conductivity, thermoelectric power
AlB24C4	preparation, electrical conductivity, thermoelectric power, Seebeck effect
AlC2B12	preparation, crystal structure
AlC4B24	preparation, crystal structure, space group, lattice parameters, ESR spectrum, activation energy, electrical conductivity, phonon spectra, microhardness, density, fracture toughness
AlC4B40	preparation, crystal structure
B12AlC2	crystal structure, lattice parameters, atomic positions, phonon absorption spectra, thermoelectric power
B12AlC2	crystal structure, structural phases, space group

B12AlC4	crystal structure, space group, lattice parameters, atomic positions, phonon absorption spectra, thermoelectric power
B24AlC4	crystal structure, structural phases, space group
B40AlC4	crystal structure, structural phases, space group
B4AlC(0.25)	crystal structure, lattice parameters, atomic positions, phonon absorption spectra, thermoelectric power
B4AlC(x)	crystal structure, lattice parameters, atomic positions, phonon absorption spectra, thermoelectric power
B51Al2C8	crystal structure, structural phases, space group
B51AlC8	crystal structure, space group, lattice parameters, atomic positions, phonon absorption spectra, thermoelectric power
C4AlB26	crystal structure, structural phases, space group
Al-B -Cr-Mo	
Mo(x)Cr(1-x)AlB	preparation, crystal structure
Mo(x)Cr(1-x)AlB	preparation, crystal structure, space group, lattice parameters
Al-B -Cu	
Al(x)Cu(y)B25	crystal structure, space group, lattice parameters, interatomic positions
Al-B -Dy	
DyAlB14	structure group of the orthorhombic MgAlB14-type borides: crystal structure
Al-B -Er	
ErAlB14	preparation, crystal structure, space group, lattice parameters, atomic distances, energy gaps, phonon wavenumbers, phonon spectrum, absorption spectra, reflectivity spectra, electrical conductivity, thermoelectric power, magnetic moments, magnetization, Curie temperature, microhardness
ErAlB14	structure group of the orthorhombic MgAlB14-type borides: crystal structure, absorption spectra
ErAlB4	crystal structure, lattice parameters
Al- B- Ho	
HoAlB14	preparation, crystal structure, space group, lattice parameters, magnetic moments, Curie temperature, microhardness
HoAlB14	structure group of the orthorhombic MgAlB14-type borides: crystal structure
Al-B -Li	
LiAlB14	crystal structure, space group, lattice parameters, interatomic distances, charge density, density of states, energy gap, interband transitions, photoconductivity, optical and electroabsorption, reflectivity, IR phonon resonance wavenumbers, thermoelectric power, density, melting point, microhardness
LiAlB14	structure group of the orthorhombic MgAlB14-type borides: crystal structure, interatomic distances, absorption spectra, reflectivity
Al-B -Lu	
Lu2AlB6	preparation, crystal structure, space group, lattice parameters, resistivity, microhardness
LuAlB14	preparation, crystal structure, space group, lattice parameters, magnetization
LuAlB14	structure group of the orthorhombic MgAlB14-type borides: crystal structure
LuAlB4	crystal structure, space group, lattice parameters, resistivity, microhardness
LuAlB6	crystal structure, lattice parameters
Al-B -Mg	
Al(x)Mg(y)B22	preparation, crystal structure, space group, lattice parameters, energy gap, microhardness
Al(x)Mg(y)B22	orthorhombic gamma-AlB12 structure group: crystal structure
MgAlB14	crystal structure, space group, lattice parameters, interatomic positions, energy gap, optical absorption and reflectivity spectrum, electrical conductivity, thermoelectric power, density, microhardness, melting point
MgAlB14	structure group of the orthorhombic MgAlB14-type borides: crystal structure, interatomic distances, absorption spectra, reflectivity
Al-B -Sc	
Sc(x)Al(y)B(z)	crystal growth
Al-B -Si	
Al3SiB48	microhardness, microstrength, microbrittleness, thermoelectric power

Al-B -Tb

TbAlB ₁₄	preparation, crystal structure, space group, lattice parameters, magnetic moments, magnetization, Curie temperature, microhardness
TbAlB ₁₄	structure group of the orthorhombic MgAlB₁₄-type borides: crystal structure

Al-B -Tm

TmAlB ₁₄	preparation, crystal structure, space group, lattice parameters, microhardness
TmAlB ₁₄	structure group of the orthorhombic MgAlB₁₄-type borides: crystal structure
TmAlB ₄	crystal structure, space group, lattice parameters, resistivity, microhardness

Al-B -Y

YAlB ₁₄	preparation, crystal structure, lattice parameters, atomic distances, microhardness
YAlB ₁₄	further structure groups: crystal structure
YAlB ₁₄	structure group of the orthorhombic MgAlB₁₄-type borides: crystal structure
Yb ₂ AlB ₆	preparation, crystal structure, space group, lattice parameters
YbAlB ₁₄	crystal structure, space group, lattice parameters
YbAlB ₁₄	structure group of the orthorhombic MgAlB₁₄-type borides: crystal structure
YbAlB ₄	preparation, crystal structure, space group, lattice parameters, density, resistivity, microhardness

Al-Co-Sb

Co(1-x)Al(x)Sb ₃	crystal structure, chemical bond of transition element tripnictides
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Al-O -V

Al(x)V(1-x)O ₂	conductivity, thermopower
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Am-B

AmB ₄	preparation
AmB ₆	preparation, crystalline structure

As-B

B ₁₂ As ₂	preparation, crystal structure, space group, lattice parameters, interatomic distances, band structure, density of states, Mulliken effective charge, energy gap, irradiation-induced damage rates, lattice vibration modes, thermal conductivity, phonon mean free path, force field constant, sound velocities, acoustiv phonon cutoff, elastic moduli, bulk modulus, optical conductivity, dielectric constant, refractive index, absorption spectrum, Raman spectrum, Debye temperature, density
B ₁₂ As ₂	alpha-rhombohedral boron structure group: crystal structure
B ₁₃ As ₂	preparation, crystal structure, space group, lattice parameters, interatomic distances, band structure, density of states, Mulliken effective charge, energy gap, irradiation-induced damage rates, lattice vibration modes, thermal conductivity, phonon mean free path, force field constant, sound velocities, acoustiv phonon cutoff, elastic moduli, bulk modulus, optical conductivity, dielectric constant, refractive index, absorption spectrum, Raman spectrum, Debye temperature, density
B ₆ As	preparation, crystal structure, space group, lattice parameters, interatomic distances, band structure, density of states, Mulliken effective charge, energy gap, irradiation-induced damage rates, lattice vibration modes, thermal conductivity, phonon mean free path, force field constant, sound velocities, acoustiv phonon cutoff, elastic moduli, bulk modulus, optical conductivity, dielectric constant, refractive index, absorption spectrum, Raman spectrum, Debye temperature, density
B ₆ As	alpha-rhombohedral boron structure group: crystal structure

As-Co

CoAs ₂	physical properties
CoAs ₂	crystal structure, chemical bond of transition element dipnictides
CoAs ₂	crystallographic data of transition-element dipnictides with octahedrally coordinated cations: space group, lattice parameters, density
CoAs ₂	interatomic distances for binary arsenopyrite-type phases of transition element dipnictides
CoAs ₃	crystallographic data for semiconducting skutterudite-type compounds TX₃: lattice parameters, space group, atomic positions, density
CoAs ₃	physical data for skutterudite-type semiconductors: energy gap, resistivity, electrical conductivity, thermoelectric power, mass susceptibility

As-Co-Fe

Co(1-x)Fe(x)As ₃	doping and ternary phases of transition element tripnictides: solubility, resistivity
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Co(1-x)Fe(x)As ₃	doping and ternary phases of transition element tripnictides: solubility
Co(1-x)Fe(x)As ₃	physical data for skutterudite-type semiconductors: energy gap, resistivity, electrical conductivity, thermoelectric power, mass susceptibility
Fe(1-x)Co(x)As ₂	physical properties
As-Co-Fe-Ni	
Co(1-x-y)Fe(x)Ni(y)As ₃	crystallographic data for semiconducting skutterudite-type compounds TX₃: lattice parameters, space group, atomic positions, density
CoFe(x/2)Ni(x/2)As ₃	doping and ternary phases of transition element tripnictides: solubility
As-Co-Fe-S	
Fe(x)Co(1-x)As(3-x)S(x)	physical properties
As-Co-Fe-Se	
Fe(x)Co(1-x)As(3-x)Se(x)	physical properties
As-Co-Ni	
Co(1-x)Ni(x)As ₂	physical properties
Co(1-x)Ni(x)As ₃	doping and ternary phases of transition element tripnictides: solubility, resistivity
Co(1-x)Ni(x)As ₃	physical data for skutterudite-type semiconductors: energy gap, resistivity, electrical conductivity, thermoelectric power, mass susceptibility
As-Co-P	
CoP(3-x)As(x)	doping and ternary phases of transition element tripnictides: solubility
CoP(3-x)As(x)	doping and ternary phases of transition element tripnictides: solubility
As-Co-S	
CoAsS	crystal structure, physical properties
CoAsS	crystal structure, chemical bond
CoAsS	crystallographic and physical data for pyrite-type derivatives: crystal structure, lattice parameters, energy gap, Seebeck coefficient
CoAsS	crystallographic data for ternary marcasite-type semiconductors: lattice parameters, space group, density
As-Co-Sb	
CoAs(3-x)Sb(x)	doping and ternary phases of transition element tripnictides: solubility
As-Co-Se	
CoAsSe	crystal structure, physical properties
CoAsSe	crystallographic and physical data for pyrite-type derivatives: crystal structure, lattice parameters, energy gap, Seebeck coefficient
CoAsSe	crystallographic data for ternary marcasite-type semiconductors: lattice parameters, space group, density
As-Cr-Fe	
Fe(1-x)Cr(x)As ₂	physical properties
As-Fe	
FeAs ₂	physical properties
FeAs ₂	physical properties of Se-doped material
FeAs ₂	crystallographic data of transition-element dipnictides with octahedrally coordinated cations: space group, lattice parameters, density
FeAs ₂	interatomic distances in marcasite- and loellingite-type transition element dipnictides
As-Fe-Ni	
Fe(1/2)Ni(1/2)As ₂	crystallographic data of transition-element dipnictides with octahedrally coordinated cations: space group, lattice parameters, density
Fe(1/2)Ni(1/2)As ₂	interatomic distances in marcasite- and loellingite-type transition element dipnictides
Ni(1-x)Fe(x)As ₃	physical data for skutterudite-type semiconductors: energy gap, resistivity, electrical conductivity, thermoelectric power, mass susceptibility
Ni(1-x)Fe(x)As ₃	physical properties
Ni(1-x)Fe(x)As ₃	crystal structure, chemical bond of transition element tripnictides

As-Fe-S	
FeAsS	physical properties
FeAsS	crystallographic data for the arsenopyrite-type compounds: lattice parameters, space group, density
As-Fe-Se	
FeAsSe	physical properties
FeAsSe	crystallographic data for the arsenopyrite-type compounds: lattice parameters, space group, density
As-Fe-Te	
FeAsTe	crystallographic data for the arsenopyrite-type compounds: lattice parameters, space group, density
As-Ir	
IrAs ₂	physical properties
IrAs ₂	crystallographic data of transition-element dipnictides with octahedrally coordinated cations: space group, lattice parameters, density
IrAs ₂	interatomic distances for binary arsenopyrite-type phases of transition element dipnictides
IrAs ₃	crystallographic data for semiconducting skutterudite-type compounds TX₃: lattice parameters, space group, atomic positions, density
IrAs ₃	physical data for skutterudite-type semiconductors: energy gap, resistivity, electrical conductivity, thermoelectric power, mass susceptibility
As-Ir-Os	
Ir(1-x)Os(x)As ₃	crystal structure, chemical bond of transition element tripnictides
As-Ir-Pt	
Ir(1-x)Pt(x)As ₃	doping and ternary phases of transition element tripnictides: solubility
As-Ir-S	
IrAsS	crystallographic and physical data for pyrite-type derivatives: crystal structure, lattice parameters, energy gap, Seebeck coefficient
As-Ir-Sb	
IrAsSb	physical properties
IrAsSb	crystallographic data of transition-element dipnictides with octahedrally coordinated cations: space group, lattice parameters, density
As-Ir-Se	
IrAsSe	crystallographic and physical data for pyrite-type derivatives: crystal structure, lattice parameters, energy gap, Seebeck coefficient
As-Ir-Te	
IrAsTe	crystallographic and physical data for pyrite-type derivatives: crystal structure, lattice parameters, energy gap, Seebeck coefficient
As-Ni	
NiAs ₂	physical properties
NiAs ₂	crystal structure, chemical bond
NiAs ₂	crystallographic data of transition-element dipnictides with octahedrally coordinated cations: space group, lattice parameters, density
NiAs ₂	interatomic distances in marcasite- and loellingite-type transition element dipnictides
NiAs ₂	interatomic distances in pyrite- and pararammelsbergite-type transition element dipnictides
As-Ni-Pd	
Ni(1/2)Pd(1/2)As ₂	crystallographic data of transition-element dipnictides with octahedrally coordinated cations: space group, lattice parameters, density
Ni(1-x)Pd(x)As ₂	crystal structure
As-Ni-Pt	
Ni(x)Pt(1-x)As ₂	physical properties, metal substitutions in PtAs₂
As-Ni-S	
NiAs(2-x)S(x)	physical properties

As-Ni-Se

NiAs(2-x)Se(x) [physical properties](#)

As-O -Se

OAsSe [physical properties](#)

As-Os

OsAs₂ [crystallographic data of transition-element dipnictides with octahedrally coordinated cations: space group, lattice parameters, density](#)

OsAs₂ [interatomic distances in marcasite- and loellingite-type transition element dipnictides](#)

As-Os-Ru-S

Ru(1/2)Os(1/2)AsS [crystallographic data for the arsenopyrite-type compounds: lattice parameters, space group, density](#)

As-Os-S

OsAsS [crystallographic data for the arsenopyrite-type compounds: lattice parameters, space group, density](#)

OsAsS [physical properties](#)

As-Os-Se

OsAsSe [crystallographic data for the arsenopyrite-type compounds: lattice parameters, space group, density](#)

As-Os-Te

OsAsTe [physical properties](#)

As-P -Pd

PdPAs [physical properties](#)

PdPAs [crystallographic data for the PdP₂-type compounds with square-planar cation coordination: lattice parameters](#)

As-P -Pt

PtPAs [physical properties](#)

PtPAs [crystallographic data of transition-element dipnictides with octahedrally coordinated cations: space group, lattice parameters, density](#)

As-P -Ru

RuPAs [physical properties](#)

RuPAs [crystallographic data of transition-element dipnictides with octahedrally coordinated cations: space group, lattice parameters, density](#)

As-Pd

PdAs₂ [crystallographic data of transition-element dipnictides with octahedrally coordinated cations: space group, lattice parameters, density](#)

PdAs₂ [interatomic distances in pyrite- and pararammelsbergite-type transition element dipnictides](#)

As-Pd-Rh

Rh(1-x)Pd(x)As₃ [doping and ternary phases of transition element tripnictides: solubility, resistivity](#)

As-Pt

PtAs₂ [physical properties](#)

PtAs₂ [crystallographic data of transition-element dipnictides with octahedrally coordinated cations: space group, lattice parameters, density](#)

PtAs₂ [interatomic distances in pyrite- and pararammelsbergite-type transition element dipnictides](#)

As-Rh

RhAs₂ [physical properties](#)

RhAs₂ [crystallographic data of transition-element dipnictides with octahedrally coordinated cations: space group, lattice parameters, density](#)

RhAs₂ [interatomic distances for binary arsenopyrite-type phases of transition element dipnictides](#)

RhAs₃ [crystallographic data for semiconducting skutterudite-type compounds TX₃: lattice parameters, space group, atomic positions, density](#)

RhAs₃ [physical data for skutterudite-type semiconductors: energy gap, resistivity, electrical conductivity, thermoelectric power, mass susceptibility](#)

As-Rh-RuRh(1-x)Ru(x)As₃ [crystal structure, chemical bond of transition element tripnictides](#)**As-Rh-S**RhAsS [crystallographic and physical data for pyrite-type derivatives: crystal structure, lattice parameters, energy gap, Seebeck coefficient](#)**As-Rh-Sb**RhAsSb [physical properties](#)RhAsSb [crystallographic data of transition-element dipnictides with octahedrally coordinated cations: space group, lattice parameters, density](#)**As-Rh-Se**RhAsSe [crystallographic and physical data for pyrite-type derivatives: crystal structure, lattice parameters, energy gap, Seebeck coefficient](#)**As-Rh-Te**RhAsTe [crystallographic and physical data for pyrite-type derivatives: crystal structure, lattice parameters, energy gap, Seebeck coefficient](#)**As-Ru**RuAs₂ [physical properties](#)RuAs₂ [crystallographic data of transition-element dipnictides with octahedrally coordinated cations: space group, lattice parameters, density](#)RuAs₂ [interatomic distances in marcasite- and loellingite-type transition element dipnictides](#)**As-Ru-S**RuAsS [physical properties](#)RuAsS [crystallographic data for the arsenopyrite-type compounds: lattice parameters, space group, density](#)**As-Ru-Sb**RuAsSb [crystallographic data of transition-element dipnictides with octahedrally coordinated cations: space group, lattice parameters, density](#)**As-Ru-Se**RuAsSe [physical properties](#)RuAsSe [crystallographic data for the arsenopyrite-type compounds: lattice parameters, space group, density](#)**As-Ru-Te**RuAsTe [physical properties](#)RuAsTe [crystallographic data for the arsenopyrite-type compounds: lattice parameters, space group, density](#)**B**B [alpha-rhombohedral boron structure group: crystal structure](#)B [alpha-tetragonal boron structure group: crystal structure](#)B [beta-rhombohedral boron structure group: crystal structure](#)B [beta-tetragonal boron structure group: crystal structure](#)**B -Ba**BaB₆ [crystal structure, space group, lattice parameters, energy gap, entropy, resistivity, density, melting point, thermal expansion](#)BaB₆ [crystal structure, lattice parameters, force constants, work function, effective magnetic moment, phonon frequencies, thermal conductivity, magnetic susceptibility, vibrational wavenumbers, resistivity, thermopower, Einstein temperature, band structure](#)**B -Ba-Na**Na(x)Ba(1-x)B₆ [preparation, crystalline structure](#)Na(x)Ba(1-x)B₆ [crystal structure, lattice parameters, force constants, work function, effective magnetic moment, phonon frequencies, thermal conductivity, magnetic susceptibility, vibrational wavenumbers, resistivity, Einstein temperature, band structure](#)**B -Ba-Sm**Sm(1-x)Ba(x)B₆ [effective valence, optical absorption](#)

B -Be

B12Be	alpha-rhombohedral boron structure group: crystal structure
B12Be	alpha-tetragonal boron structure group: crystal structure
B12Be2	alpha-rhombohedral boron structure group: crystal structure
Be2B	preparation, crystalline structure, chemical bond, electrical conductivity, entropy
Be4B5	structural phase
Be5B	preparation, crystalline structure, chemical bond, electrical conductivity, entropy
BeB12	preparation, crystal structure, space group, band structure, electrical conductivity, lattice parameters, density, melting point, optical transmission
BeB2	preparation, band structure, chemical bond, electrical conductivity, entropy
BeB3	preparation, crystal structure, space group, lattice parameters
BeB3	further structure groups: crystal structure
BeB4	crystal structure, resistivity, density, melting point
BeB6	crystal structure, lattice parameters, band structure, resistivity, density, melting point
BeB9	preparation, crystal structure, electrical conductivity, lattice parameters, microhardness

B -Be-C

BeB2C2	preparation, crystal structure, core-loss spectrum
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B -Be-N

Be(1/2)B5N	preparation, crystal structure, lattice parameters, core-loss spectrum
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B -Br

B9Br9	crystal structure, space group, lattice parameters
BBr3	crystal structure, IR and Raman spectra

B -C

B(x)C(1-x)	amorphous boron carbide: crystallization, phase transitions, absorption spectra, Raman spectra, local vibrations, speed of sound variation, differential thermal analysis, thermal gravimetry
B(x)C(1-x)	structure, paramagnetic centers
B(x)C(y)	structure details of boron carbide: crystal structure, space group, lattice parameters, interatomic distances, quadropole coupling constant
B(x)C(y)	boron carbide doped with H, He, Mg, C, Si
B(x)C(y)	boron carbide doped with N, P, O
B(x)C(y)	boron carbide doped with Ti, Cr, Fe
B(x)C(y)	electronic properties of boron carbide: band structure, cohesive energies, Mulliken effective charge, density of states, charge densities, Auger electron spectroscopy, energy gaps, photoluminescence energies, activation energy for conductivity, interband critical points, g-values, spin density, susceptibility, Hall mobility, ESR intensity and linewidth, electrical resistivity, effective hole mass
B(x)C(y)	further properties of boron carbide: melting point, heat capacity, thermal conductivity, speed of sound, plastic wave velocities, magnetic susceptibility, Grüneisen parameter, density, thermal expansion, critical stress intensity factor, microhardness, flexural and transverse rupture strength, internal friction
B(x)C(y)	impurities and defects of boron carbide
B(x)C(y)	lattice properties of boron carbide: elastic moduli, Young's modulus, shear modulus, bulk modulus, compressibility, fracture toughness, sound velocity, ultrasonic wave propagation velocity, lattice vibrations, phonon wavenumbers, phonon dispersion, force field constants
B(x)C(y)	optical properties of boron carbide: dielectric function, absorption and reflectance spectra, transition energies, IR phonon and Raman spectra, concentration of unoccupied traps
B(x)C(y)	structure, chemical bond, review articles of boron carbide
B(x)C(y)	transport properties of boron carbide: electrical conductivity, hall mobility, resistivity, Seebeck effect, dielectric function, photoconductivity, Hall coefficient, hole concentration, magnetoresistance, thermoelectric power
B(x)C(y)	general papers on further properties of boron carbide: diffusion of point defects, mechanical properties, microcracking
B25C	preparation, crystal structure, space group, lattice parameters, lattice vibration spectra, absorption and reflectance spectra, phonon frequencies, density
B25C	alpha-tetragonal boron structure group: crystal structure
B2C	preparation

B50C2	preparation, crystal structure, space group, lattice parameters, lattice vibration spectra, absorption and reflectance spectra, phonon frequencies, density
B51C	preparation, crystal structure, space group, lattice parameters, lattice vibration spectra, absorption and reflectance spectra, phonon frequencies, density
B51C	alpha-tetragonal boron structure group: crystal structure
B8C	preparation, crystal structure, lattice parameters, lattice vibration spectra, absorption and reflectance spectra, phonon frequencies, density
BC3	crystal structure, band structure
B -C -Ce	
Ce10B9C12	atomic positions, valence electron count
Ce5B2C6	preparation, crystal structure
Ce5B2C6	atomic positions, valence electron count
Ce5B4C5	atomic positions, valence electron count
B -C -Eu	
EuB(6-x)C(x)	crystal structure, lattice parameters, carrier concentration, Curie temperature, carrier concentration, phonon wavenumbers, Raman spectrum, reflectivity spectrum, resistivity, magnetoresistance, electron mobility, electrical conductivity, Hall coefficient, thermoelectric power, thermal conductivity, dielectric function, compressibility, heat capacity, density, melting point, thermal expansion, work function, emissivity, microhardness, magnetic moments, Curie temperature, entropy, magnetic phase diagram, magnetic susceptibility
EuB(6-x)C(x)	phonon wavenumbers
B -C -Gd	
Gd15B4C12	atomic positions, valence electron count
Gd5B2C5	atomic positions, valence electron count
B -C -Hf-Mo	
Mo(2-x)Hf(x)BC	superconducting behavior
B -C -La	
La10B9C6	atomic positions, valence electron count
La15B14C19	atomic positions, valence electron count
La5B2C6	preparation, crystal structure, superconductivity
LaB2C2	crystal structure
B -C -Li	
LiBC	preparation, crystal structure, space group, lattice parameters, energy gap, optical transmittance
B -C -Lu-Ni	
LuNi2B2C	Hall effect
B -C -Mo	
Mo2BC	critical temperature of superconductivity
B -C -Mo-Nb	
Mo(2-x)Nb(x)BC	superconducting behavior
B -C -Mo-Rh	
Mo(2-x)Rh(x)BC	superconducting behavior
B -C -Mo-Ta	
Mo(2-x)Ta(x)BC	superconducting behavior
Mo(2-x)W(x)BC	superconducting behavior
Mo(2-x)Zr(x)BC	superconducting behavior
B -C -N	
B(x)C(y)N	preparation, crystal structure, lattice parameters, transmission spectra

BC3N	preparation, crystal structure, lattice parameters, transmission spectra
BC2N	preparation, crystal structure, lattice parameters, transmission spectra
BCN	preparation, crystal structure, lattice parameters, transmission spectra
B2C4N2	preparation, crystal structure, lattice parameters, band structure, density of states, transmission spectra
B2C5N	preparation, crystal structure, lattice parameters, transmission spectra
B -C -Na	
NaB5C	crystal structure, lattice parameters, density
NaB5C	crystal structure, lattice parameters, force constants, work function, effective magnetic moment, phonon frequencies, thermal conductivity, magnetic susceptibility, vibrational wavenumbers, resistivity, thermopower, Einstein temperature, band structure
B -C -Nb	
Nb4B3C2	crystal structure, space group, lattice parameters
B- C -Sc	
Sc(x)B(y)C(z)	crystal structure, space group, lattice parameters, band structure, density
Sc2BC2	band structure
B -C -Th	
ThB2C	crystal structure
B -C -U	
UB(x)C(y)	phase diagram of the ternary system, unit cell dimensions
B -Ca	
CaB6	reflectance spectrum
CaB6	crystal structure, lattice parameters, force constants, work function, effective magnetic moment, phonon frequencies, thermal conductivity, magnetic susceptibility, vibrational wavenumbers, resistivity, thermopower, Einstein temperature, band structure
B -Ca-Sm	
Sm(1-x)Ca(x)B6	lattice constants
Sm(1-x)Ca(x)B6	effective valence, optical absorption
B -Cd	
CdB4	crystal structure, melting point
CdB4	crystal structure, lattice parameters, thermal and electrical conductivity
B -Ce	
CeB4	crystal structure, space group, melting point, entropy, standard enthalpy of formation
CeB4	crystal structure, lattice parameters, thermal and electrical conductivity
CeB6	crystal structure, chemical bond, band structure, energy gap, magnetic moments, lattice parameters, elastic constants, entropy, melting point, Debye temperature, microhardness, magnetic susceptibility, Neel temperature, magnetic phase diagram,
CeB6	reflectivity spectrum
CeB6	phonon wavenumbers
CeB6	Einstein temperature
CeB6	crystal structure, lattice parameters, force constants, work function, effective magnetic moment, phonon frequencies, thermal conductivity, magnetic susceptibility, vibrational wavenumbers, resistivity, thermopower, Einstein temperature, band structure, reflectivity spectrum
B -Ce-Co	
CeCo3B2	preparation, crystal structure, intermediate valence behavior
Co4CeB	preparation and compound structure

B -Ce-Co-Fe

CeCo₂Fe₂B [preparation and compound structure](#)

CeCoFe₃B [preparation and compound structure](#)

B -Ce-Cr

CeCr₂B₆ [preparation, crystal structure](#)

B -Ce-Ir

CeIr₃B₂ [intermediate valence behavior](#)

B -Ce-La

La(1-x)Ce(x)B₆ [preparation, crystal structure, lattice parameters, density, hardness](#)

B -Ce-Ni

Ni₄CeB [preparation and compound structure](#)

B -Ce-Os

CeOs₃B₂ [crystal structure, critical temperature of superconductivity](#)

B -Ce-Rh

CeRh₃B₂ [preparation, crystal structure, space group, lattice parameters, atomic positions, occupancies, intermediate valence behavior](#)

B -Cu-Re

CeRu₃B₂ [crystal structure, critical temperature of superconductivity, intermediate valence behavior](#)

B -Cl

B₄Cl₄ [crystal structure, band structure, IR and Raman spectra](#)

B₉Cl₉ [crystal structure, space group, lattice parameters](#)

BCl₃ [crystal structure, IR and Raman spectra](#)

B -Cl-H

BH(m)Cl(n) [Thermochemistry](#)

B -Co

Co₇₇B₂₃ [crystallization](#)

Co(100-x)B(x) [IR optical properties](#)

Co₂B [preparation, crystal structure, band structure](#)

CoB [preparation, crystal structure](#)

CoB₁₂ [preparation, crystal structure, microhardness](#)

B -Co-Er

Co₄ErB [preparation and compound structure](#)

B -Co-Fe

Co(3-x)Fe(x)B [hyperfine fields, site preference](#)

Fe₇₅Co₅B₂₀ [preparation, crystal structure, optical conductivity spectra](#)

Fe₈₀Co₅B₁₅ [preparation, crystal structure, optical conductivity spectra](#)

B -Co-Gd

Gd₃Co₁₁B₄ [crystal structure, electrical resistivity, heat capacity](#)

GdCo₁₂B₆ [crystal structure, lattice parameters, resistivity, Seebeck coefficient, heat capacity, critical behaviour](#)

B -Co-Ho

Co₄HoB [preparation and compound structure](#)

B -Co-La

Co14La2B [preparation and compound structure](#)

Co4LaB [preparation and compound structure](#)

B -Co-Nb

Nb3Co4B7 [lattice parameters](#)

B -Co-Pr

Co14Pr2B [preparation and compound structure](#)

Co4PrB [preparation and compound structure](#)

B -Co-U

UCo3B2 [intermediate valence behavior](#)

B -Co-Y

Co4YB [preparation and compound structure](#)

Y3Co11B4 [crystal structure, electrical resistivity](#)

YCo12B6 [crystal structure, lattice parameters, resistivity, Seebeck coefficient, heat capacity, critical behaviour](#)

B -Cr

Cr2B [preparation, crystal structure, band structure, lattice parameters](#)

Cr2B3 [crystal structure, space group, lattice parameters, interatomic positions, resistivity, microhardness, density](#)

Cr3B2 [crystal structure, space group, lattice parameters](#)

Cr3B4 [preparation, crystal structure, lattice parameters, space group, density, microhardness, resistivity](#)

Cr5B3 [preparation, crystal structure, lattice parameters](#)

CrB [preparation, crystal structure, space group, band structure, lattice parameters, atomic positions, resistivity, microhardness](#)

CrB2 [preparation, crystal structure, space group, band structure, lattice parameters, density, resistivity, microhardness, electrical conduction](#)

CrB4 [preparation, crystal structure](#)

CrB6 [crystal structure, space group, electron density, lattice parameters, band structure, density of states, energy gap, vibrational frequencies, entropy, IR diffuse reflectance spectrum, Raman spectrum, resistivity, density, melting point, thermal expansion](#)

B -Cr-Fe

Fe75Cr5B20 [preparation, crystal structure, optical conductivity spectra](#)

Fe80Cr5B15 [preparation, crystal structure, optical conductivity spectra](#)

B -Cr-Mo

Cr(1-x)Mo(x)B4 [crystal growth](#)

Cr(3-x)Mo(x)B4 [single crystal preparation, structure](#)

Mo2CrB2 [crystal structure, space group, lattice parameters](#)

B -Cr-Ni

Cr2NiB2 [crystal structure, space group, lattice parameters](#)

B -Cr-Ta

Cr(3-x)Ta(x)B4 [single crystal preparation, structure](#)

B -Cr-Th

ThCr2B6 [preparation, structure](#)

ThCrB4 [preparation, structure](#)

B -Cr-W

Cr(1-x)W(x)B4 [crystal growth](#)

Cr(3-x)W(x)B4	single crystal preparation, structure
Cr2WB2	crystal structure, space group, lattice parameters
B -Cr-Y	
YCrB4	space group
B -Cu	
Cu(x)B105	solid solutions of Cu in b-rhombohedral boron
B -Dy	
DyB12	crystal structure, lattice parameters, resistivity, Neel temperature, Curie temperature, effective magnetic moments, magnetic susceptibility, entropy
DyB12	crystal structure, lattice parameters, band structure, cluster energy levels
DyB2	entropy
DyB4	crystal structure, space group, melting point, microhardness
DyB4	crystal structure, lattice parameters, thermal and electrical conductivity, resistivity, Hall coefficient, electron density, electron mobility
DyB50	magnetization
DyB50	structure group of the REB50-type borides: preparation, crystal structure, space group, magnetization
DyB6	reflectance spectrum
DyB6	formation mechanism, force constants, vibrational modes, reflection and Raman spectra
DyB66	energy gap, electrical conductivity, Hall mobility, thermoelectric power,
DyB66	further structure groups: crystal structure
B -Dy-Fe	
Dy3FeB7	crystal structure, space group, lattice parameters
B -Dy-Re	
Dy3ReB7	crystal structure, space group, lattice parameters
B -Dy-Rh	
DyRh4B4	magnetic susceptibility
B -Dy-Ru	
DyRuB4	crystal structure, magnetic ordering
B -Dy-Sm	
Sm(1-x)Dy(x)B6	effective valence, optical absorption
B -Er	
ErB12	crystal structure, lattice parameters, resistivity, Neel temperature, Curie temperature, effective magnetic moments, magnetic susceptibility, entropy
ErB12	crystal structure, lattice parameters, band structure, cluster energy levels
ErB4	preparation, crystal structure, space group, phase transition temperatures, lattice parameters, magnetic phase diagram, magnetic susceptibility, melting point, microhardness
ErB4	crystal structure, lattice parameters, thermal and electrical conductivity, resistivity, Hall coefficient, electron density, electron mobility, magnetic susceptibility
ErB50	magnetization
ErB50	structure group of the REB50-type borides: preparation, crystal structure, space group, magnetization
ErB66	crystal growth, electrical conductivity, thermoelectric power, carrier mobility
ErB66	further structure groups: crystal structure
B -Er-Fe	
Er3FeB7	crystal structure, space group, lattice parameters
B -Er-Ir	
ErIr4B4	crystal structure

B -Er-Re

Er₃ReB₇ [crystal structure, space group, lattice parameters](#)

B -Er-Rh

ErRh₃B [preparation, crystal structure](#)

ErRh₃B₂ [crystal structure, space group, lattice parameters, magnetic susceptibility](#)

ErRh₄B₄ [crystal structure, critical temperature of superconductivity, chemical bond, critical temperatures of superconductivity, ferro- and antiferromagnetism, magnetic ordering](#)

ErRh₄B₄ [crystal structure, space group, lattice parameters, density, superconductivity data](#)

B -Er-Ru

ErRuB₄ [crystal structure, magnetic ordering](#)

B -Eu

EuB₄ [crystal structure, space group, microhardness](#)

EuB₄ [crystal structure, lattice parameters, thermal and electrical conductivity](#)

EuB₆ [crystal structure, chemical bond, interatomic distances, band structure, density of states, energy gap, optical transition energies, absorption spectrum, reflectivity spectrum, g-factors, effective mass of electrons, interband transitions, work function, resistivity, Curie temperature, lattice parameters, concentration of impurities and defects](#)

EuB₆ [Einstein temperature](#)

EuB₆ [resistivity, optical reflectivity](#)

EuB₆ [carrier concentration, electrical conductivity, resistivity, thermopower, Raman spectra, reflectivity](#)

EuB₆ [crystal structure, lattice parameters, force constants, work function, effective magnetic moment, phonon frequencies, thermal conductivity, magnetic susceptibility, vibrational wavenumbers, resistivity, thermopower, Einstein temperature, band structure, reflectivity spectrum](#)

B -Eu-La

La(x)Eu(1-x)B₆ [resistivity](#)

La(x)Eu(1-x)B₆ [phase transitions, work function, electrical resistivity, thermoelectric power](#)

B -Eu-Sm

Sm(1-x)Eu(x)B₆ [lattice constants](#)

Sm(1-x)Eu(x)B₆ [lattice parameters, effective valence, optical absorption](#)

B -F

BF₃ [crystal structure, IR and Raman spectra](#)

B -Fe

Fe(x)B(100-x) [magnetic phase diagram, resonance ESR-linewidth, spin relaxations, magnetic order in disordered media](#)

FeB [preparation, crystal structure, band structure, electrical resistance, thermopower](#)

Fe₂B [preparation, crystal structure, band structure](#)

Fe₈₀B₂₀ [absorption](#)

FeB(2) [ESR linewidth](#)

B -Fe-Ho

Ho₃FeB₇ [crystal structure, space group, lattice parameters](#)

B -Fe-Mn

Fe₇₅Mn₅B₂₀ [preparation, crystal structure, optical conductivity spectra](#)

Fe₈₀Mn₅B₁₅ [preparation, crystal structure, optical conductivity spectra](#)

B -Fe-Mo

Mo₂FeB₂ [corrosion behavior, sintering mechanism](#)

B -Fe-Nd

Fe14Nd2B [preparation and compound structure](#)

B -Fe-Ni

Fe75Ni5B20 [preparation, crystal structure, optical conductivity spectra](#)

Fe80Ni5B15 [preparation, crystal structure, optical conductivity spectra](#)

B -Fe-Si

Fe78B13Si9 [crystallization kinetics, hyperfine field distributions](#)

B -Fe-Tb

Tb3FeB7 [crystal structure, space group, lattice parameters](#)

B -Fe-Ti

Fe75Ti5B20 [preparation, crystal structure, optical conductivity spectra](#)

Fe80Ti5B15 [preparation, crystal structure, optical conductivity spectra](#)

B -Fe-V

Fe75V5B20 [preparation, crystal structure, optical conductivity spectra](#)

Fe80V5B15 [preparation, crystal structure, optical conductivity spectra](#)

B -Fe-Y

Fe14Y2B [preparation and compound structure](#)

Y3FeB7 [crystal structure, space group, lattice parameters](#)

B -Gd

GdB(66-x) [further structure groups: crystal structure, thermal conductivity](#)

GdB(x) [electrical conductivity, thermoelectric power](#)

GdB12 [crystal structure, lattice parameters, band structure, cluster energy levels](#)

GdB4 [crystal structure, space group, entropy, microhardness, magnetic susceptibility](#)

GdB4 [crystal structure, lattice parameters, thermal and electrical conductivity, resistivity, Hall coefficient, electron density, electron mobility, magnetic susceptibility](#)

GdB5 [enthalpy of formation](#)

GdB6 [lattice parameters, vibrational frequencies, reflectance spectrum, Raman spectrum, entropy, microhardness, melting point,](#)

GdB6 [Einstein temperature](#)

GdB6 [crystal structure, lattice parameters, force constants, work function, effective magnetic moment, phonon frequencies, thermal conductivity, magnetic susceptibility, vibrational wavenumbers, resistivity, thermopower, Einstein temperature, band structure](#)

GdB66 [electrical conductivity, thermoelectric power, carrier mobility](#)

GdB66 [energy gap, interband transition energies, electrical conductivity, carrier concentration, Hall mobility, Seebeck coefficient, thermoelectric power, absorption, reflectance, Raman spectrum, density, sound velocity, thermal conductivity, internal friction, microhardness](#)

GdB66 [further structure groups: crystal structure](#)

B -Gd-Mn

Gd3MnB7 [crystal structure, space group, lattice parameters](#)

B -Gd-Re

Gd3ReB7 [crystal structure, space group, lattice parameters](#)

B -Gd-Rh

GdRh3B [preparation, crystal structure](#)

B -Gd-Ru

GdRuB4 [crystal structure, magnetic ordering](#)

B -Gd-Sm

Sm(1-x)Gd(x)B6	lattice constants, resistivity
Sm(1-x)Gd(x)B6	lattice parameters, effective valence, optical absorption

B -Ge

B90Ge	beta-rhombohedral boron structure group: crystal structure
GeB90	phase diagram

B -H

a-B(H)	boron-hydrogen alloys: energy gap, phonon wavenumbers, dielectric constant, photoconductivity
B12H12	ground and excited energies

B -Hf

HfB	band structure, critical temperature of superconductivity
HfB2	preparation, crystal structure, band structure, carrier concentration, heat capacity, variation of the deHass-vanAlphen frequencies

B -Ho

HoB12	crystal structure, lattice parameters, resistivity, Neel temperature, Curie temperature, effective magnetic moments, magnetic susceptibility, entropy
HoB12	crystal structure, lattice parameters, band structure, cluster energy levels
HoB4	crystal structure, space group, magnetization, magnetic susceptibility, microhardness, melting point
HoB4	crystal structure, lattice parameters, thermal and electrical conductivity, resistivity, Hall coefficient, electron density, electron mobility, magnetic susceptibility
HoB50	magnetization
HoB50	structure group of the REB50-type borides: preparation, crystal structure, space group, magnetization
HoB66	further structure groups: crystal structure

B -Ho-Ir

HoIr4B4	crystal structure
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B -Ho-Re

Ho3ReB7	crystal structure, space group, lattice parameters
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B -Ho-Ru

HoRu4B4	magnetic phase transition
HoRuB4	crystal structure, magnetic ordering

B -I

BI3	crystal structure
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B -Ir

IrB(y)	preparation, crystal structure, electrical conductivity
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B -Ir-La

LaIr3B2	crystal structure, critical temperature of superconductivity
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B -Ir-Th

ThIr3B2	crystal structure, critical temperature of superconductivity
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B -Ir-Tm

TmIr4B4	crystal structure
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B -Ir-U

UIr3B2	intermediate valence behavior
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B -K

KB6 [crystal structure, space group, lattice parameters, band structure, energy gap, conductivity, activation energy, magnetic susceptibility, density](#)

B -La

LaB4 [crystal structure, space group, lattice parameters, density of states, melting point, entropy](#)

LaB4 [crystal structure, lattice parameters, thermal and electrical conductivity](#)

LaB6 [entropy, resistivity, reflectivity spectrum](#)

LaB6 [reflectance spectrum](#)

LaB6 [preparation, crystal structure, chemical bond, space group, lattice parameters, interatomic distances, band structure, energy gap, emission and absorption spectra, work function of electrons, electron density distribution, transition energies, critical temperature of superconductivity, irradiation-induced damage rates, impurities and defects, vibrational frequencies, phonon modes, elastic constants, sound velocity, rms velocity, phonon dispersion curves, thermal expansion, resistivity, thermopower, dielectric function, reflectivity spectrum, Raman spectrum, compressibility, entropy, melting point, microhardness, evaporation rates, Debye temperature](#)

LaB6 [Einstein temperature](#)

LaB6 [resistivity, optical reflectivity](#)

LaB6 [resistivity, thermopower, Raman spectra, reflectivity](#)

LaB6 [crystal structure, lattice parameters, force constants, work function, effective magnetic moment, phonon frequencies, thermal conductivity, magnetic susceptibility, vibrational wavenumbers, resistivity, thermopower, Einstein temperature, band structure, hardness, reflectivity spectrum](#)

B -La-Nd

La(1-x)Nd(x)B6 [preparation](#)

B -La-Ni

Ni4LaB [preparation and compound structure](#)

B -La-Pr

La(1-x)Pr(x)B6 [preparation, density](#)

B -La-Rh

LaRh3B2 [crystal structure, critical temperature of superconductivity](#)

B -La-Ru

LaRu(2.7)B2 [crystal structure, critical temperature of superconductivity](#)

B -La-Sm

Sm(1-x)La(x)B6 [lattice constants, resistivity](#)

Sm(1-x)La(x)B6 [lattice parameters, effective valence, optical absorption](#)

B -Li

Li2B12 [total energy gain, lattice parameters, bulk modulus, density of states](#)

Li3B12 [total energy gain, lattice parameters, bulk modulus, density of states](#)

Li3B14 [crystal structure, space group, density of states, energy gap](#)

Li5B4 [crystal structure, band structure](#)

Li6B19 [energy gap](#)

LiB12 [total energy gain, lattice parameters, bulk modulus, density of states](#)

LiB13 [crystal structure](#)

LiB6 [energy gap](#)

LiB6 [preparation, crystal structure, conduction electron spin resonance](#)

LiBO2 [space group, lattice parameters, electron density](#)

B -Li-Pd

Li2Pd3B [solid solutions of Li in b-rhombohedral boron](#)

B -Li-Pt

LiPt3B [preparation and structure](#)

B -Lu

LuB12 [crystal structure, lattice parameters, resistivity, magnetic susceptibility, entropy, critical temperature of superconductivity](#)

LuB12 [crystal structure, lattice parameters, band structure, cluster energy levels](#)

LuB2 [entropy](#)

LuB4 [preparation, crystal structure, space group, lattice parameters](#)

LuB66 [further structure groups: crystal structure](#)

B -Lu-Os

LuOs3B2 [space group](#)

B -Rh-Lu

LuRh4B4 [crystal structure, critical temperature of superconductivity, chemical bond, critical temperatures of superconductivity, ferro- and antiferromagnetism, magnetic ordering, lattice parameters, resistivity, microhardness](#)

B -Ru-Lu

LuRuB2 [crystal structure, space group, critical temperature of superconductivity](#)

LuRuB4 [crystal structure, magnetic ordering](#)

B -Mg

Mg2B14 [preparation, crystalline structure, space group, lattice parameters, interatomic positions](#)

Mg2B14 [structure group of the orthorhombic MgAlB14-type borides: crystal structure, interatomic distances](#)

MgB12 [preparation, crystalline structure, entropy](#)

MgB2 [preparation, crystalline structure, band structure, entropy](#)

MgB4 [preparation, crystalline structure, entropy](#)

MgB6 [preparation, crystalline structure, band structure](#)

B -Mn

Mn2B [preparation, crystal structure, space group, lattice parameters](#)

Mn3B4 [preparation](#)

Mn48B42 [preparation, resonance ESR linewidth](#)

Mn4B [preparation, crystal structure](#)

MnB [preparation, band structure](#)

MnB2 [preparation, band structure](#)

MnB23 [preparation, crystal structure, hardness](#)

MnB4 [preparation, crystal structure](#)

B -Mn-Y

Y3MnB7 [crystal structure, space group, lattice parameters](#)

B -Mo

Mo(1-x)B3 [preparation, crystal structure](#)

Mo2B [heat capacity of compounds with group Vb elements](#)

Mo2B [preparation, crystal structure, band structure, critical temperature of superconductivity, heat capacity](#)

Mo2B(5-y) [preparation, crystal structure, space group, lattice parameters, critical temperature of superconductivity](#)

MoB [heat capacity of compounds with group Vb elements](#)

MoB [preparation, crystal structure, band structure, electrical conductivity, enthalpy of formation](#)

MoB2 [heat capacity of compounds with group Vb elements](#)

MoB2	preparation, crystal structure, band structure, space group, lattice parameters, interatomic distances, superconductivity, heat capacity
MoB4	preparation, crystal structure
B -Mo-Ni	
Mo2NiB2	crystal structural change, crystal structure, space group, lattice parameters
B -Mo-Ti	
Mo(1-x)Ti(x)B2	physico-mechanical properties
B -Mo-U	
U2MoB6	preparation, crystalline structure
B -Mo-W	
Mo2WB2	crystal structure, space group, lattice parameters
B -N	
B12N2	alpha-rhombohedral boron structure group: crystal structure
B25N	alpha-tetragonal boron structure group: crystal structure
B36N24	molecular structure, lattice parameters
B36N24	crystal structure, interatomic distances, density of states, band structure, energy gap
B50N2	preparation, crystal structure, space group, lattice parameters
B6N	crystal structure, lattice parameters
B6N	alpha-rhombohedral boron structure group: crystal structure
B -Nb-N	
NbBN	phase diagram, preparation, structure
B -N -Ti	
TiB(x)N(1-x)	preparation, crystal structure, mechanical properties
B -Na	
Na3B20	crystal structure, space group, lattice parameters, density
NaB(0.8)B14	structure group of the orthorhombic MgAlB14-type borides: crystal structure, interatomic distances
NaB15	crystal structure, space group, lattice parameters, energy gap, density of states, conductivity, density
NaB6	preparation, crystalline structure, lattice parameters, band structure, g-factor, resistivity, stability limit, density,
NaB6	crystal structure, lattice parameters, force constants, work function, effective magnetic moment, phonon frequencies, thermal conductivity, magnetic susceptibility, vibrational wavenumbers, resistivity, Einstein temperature, band structure
B -Na-Pt	
Na3Pt9B5	preparation, crystalline structure
NaPt3B(1+x)	preparation, crystalline structure
B -Na-Th	
Na(x)Th(1-x)B6	preparation, crystalline structure
Na(x)Th(1-x)B6	crystal structure, lattice parameters, force constants, work function, effective magnetic moment, phonon frequencies, thermal conductivity, magnetic susceptibility, vibrational wavenumbers, resistivity, thermopower, Einstein temperature, band structure
B -Nb	
Nb2B3	preparation, crystal structure, space group, lattice parameters, density
Nb2B5	critical temperature of superconductivity
Nb3B2	preparation, high temperature thermodynamic properties
Nb3B4	preparation, crystal structure, space group, lattice parameters, density, high temperature thermodynamic properties
Nb5B6	preparation, crystal structure, space group, lattice parameters, density, high temperature thermodynamic properties

NbB	preparation, crystal structure, band structure, space group, lattice parameters, density, high temperature thermodynamic properties
NbB2	preparation, crystal structure, band structure, space group, lattice parameters, density, superconductivity transition temperature, irradiation induced damage rates, high temperature thermodynamic properties, thermal expansion, microhardness
B -Nb-V	
V(2-x)Nb(x)B3	crystal structure, space group, lattice parameters
B -Nd	
NdB4	crystal structure, space group, melting point, entropy, standard enthalpy of formation
NdB4	crystal structure, lattice parameters, thermal and electrical conductivity, resistivity, Hall coefficient, electron density, electron mobility
NdB6	reflectance spectrum
NdB6	preparation, lattice parameters, interatomic distances, vibrational frequencies, thermal expansion, reflection, Raman spectrum, entropy, melting point, microhardness, Debye temperature, Einstein temperature
NdB6	crystal structure, lattice parameters, force constants, work function, effective magnetic moment, phonon frequencies, thermal conductivity, magnetic susceptibility, vibrational wavenumbers, resistivity, thermopower, Einstein temperature, band structure
NdB66	further structure groups: crystal structure
B -Nd-Rh	
NdRh4B4	crystal structure, critical temperature of superconductivity, chemical bond, critical temperatures of superconductivity, ferro- and antiferromagnetism, magnetic ordering
B -Ni	
Ni2B	preparation, crystal structure
Ni3B	preparation, crystal structure
Ni4B3	crystal structure
NiB	preparation, crystal structure
NiB25	preparation, crystal structure
B -Ni-Pr	
Ni4PrB	preparation and compound structure
B -Ni-Y	
Ni4YB	preparation and compound structure
B -Np	
NpB12	preparation, crystalline structure, magnetic properties
NpB2	preparation, crystalline structure, magnetic properties
NpB4	preparation, crystalline structure, magnetic properties
NpB6	preparation, crystalline structure, magnetic properties
B -O	
B12O2	preparation, crystal structure, space group, lattice parameters, atomic positions, band structure, density of states, IR active phonon modes, phonon wavenumbers, thermal expansion, reflectivity, absorption, Raman spectrum, thermodynamic functions, heat capacity, thermoelastic properties, Grüneisen parameter, Debye temperature, bulk modulus, shear modulus, Young's modulus, sound velocity, microhardness, internal friction, thermal and electrical conductivity
B12O2	alpha-rhombohedral boron structure group: crystal structure
B2O	preparation, crystal structure, space group, lattice parameters, atomic distances, band structure, density, bulk modulus
B2O3	preparation, crystal structure, Raman spectra, band structure, phonon wavenumbers, IR absorbance, density, bulk moduli, shear moduli, sound velocity, melting point
B6O	preparation, crystal structure, space group, lattice parameters, atomic positions, band structure, density of states, IR active phonon modes, phonon wavenumbers, thermal expansion, reflectivity, absorption, Raman spectrum, thermodynamic functions, heat capacity, thermoelastic properties, Grüneisen parameter, Debye temperature, bulk modulus, shear modulus, Young's modulus, sound velocity, microhardness, internal friction, thermal and electrical conductivity
B6O	alpha-rhombohedral boron structure group: crystal structure
B7O	preparation, crystal structure
(BO)(x)	preparation, crystal structure, Raman spectra, paramagnetic centers

B -Os

Os2B3	crystal structure, band structure
OsB(1.2)	crystal structure
OsB(1.6)	crystal structure
OsB2	crystal structure

B -Os-Sc

ScOsB2	crystal structure, critical temperature of superconductivity
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B -Os-Th

ThOs3B2	crystal structure, critical temperature of superconductivity
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B -Os-U

UOsB4	preparation, crystalline structure
U2OsB6	preparation, crystalline structure

B -Os-Y

YOs3B2	crystal structure, critical temperature of superconductivity
YOsB2	crystal structure, critical temperature of superconductivity

B -P

B6P	preparation, structure, chemical bond, space group, lattice parameters, interatomic distances, band structure, density of states, energy gap, activation energy for electrical conductivity, Mulliken effective charge, irradiation induced damage rates, force field constants, IR-active phonon modes, acoustic phonon cutoff, electrical conductivity, resistivity, Hall mobility, thermoelectric power, thermal conductivity, phonon mean free path, refractive index, dielectric constant, absorption and transmission spectra, Raman spectra, Debye temperature, density, melting point, diffusion coefficient of P, bulk modulus
B12P2	preparation, structure, chemical bond, space group, lattice parameters, interatomic distances, band structure, density of states, energy gap, activation energy for electrical conductivity, Mulliken effective charge, irradiation induced damage rates, force field constants, IR-active phonon modes, acoustic phonon cutoff, electrical conductivity, resistivity, Hall mobility, thermoelectric power, thermal conductivity, phonon mean free path, refractive index, dielectric constant, absorption and transmission spectra, Raman spectra, Debye temperature, density, melting point, diffusion coefficient of P, bulk modulus
B12P2	alpha-rhombohedral boron structure group: crystal structure
B13P2	preparation, structure, chemical bond, space group, lattice parameters, interatomic distances, band structure, density of states, energy gap, activation energy for electrical conductivity, Mulliken effective charge, irradiation induced damage rates, force field constants, IR-active phonon modes, acoustic phonon cutoff, electrical conductivity, resistivity, Hall mobility, thermoelectric power, thermal conductivity, phonon mean free path, refractive index, dielectric constant, absorption and transmission spectra, Raman spectra, Debye temperature, density, melting point, diffusion coefficient of P, bulk modulus
B5P3	preparation
B6P	alpha-rhombohedral boron structure group: crystal structure

B -Pd

Pd3B	preparation, crystal structure, electrical conductivity
Pd5B2	preparation, crystal structure, electrical conductivity

B -Pm

PmB4	crystal structure, space group, melting point
PmB4	crystal structure, lattice parameters, thermal and electrical conductivity
PmB6	preparation, crystal structure, melting point

B -Pr

PrB4	crystal structure, space group, melting point, entropy, standard enthalpy of formation
PrB4	crystal structure, lattice parameters, thermal and electrical conductivity, resistivity, Hall coefficient, electron density, electron mobility
PrB6	Einstein temperature
PrB6	entropy, microhardness, melting point, thermal expansion, enthalpy of formation

PrB6 [crystal structure, lattice parameters, force constants, work function, effective magnetic moment, phonon frequencies, thermal conductivity, magnetic susceptibility, vibrational wavenumbers, resistivity, thermopower, Einstein temperature, band structure](#)

B -Pr-Rh

PrRh(4.8)B2 [crystal structure, space group, lattice parameters, atomic positions, occupancies](#)

B -Pt

Pt2B [crystal structure](#)

Pt3B [crystal structure](#)

Pt4B [crystal structure](#)

PtB [crystal structure](#)

B -Pu

PuB [preparation, crystalline structure](#)

PuB12 [preparation](#)

PuB2 [preparation, crystalline structure, entropy](#)

PuB4 [preparation, crystalline structure, entropy](#)

PuB6 [preparation, crystalline structure, entropy, band structure](#)

PuB66 [preparation, crystalline structure](#)

B -Re

Re3B [preparation](#)

Re7B3 [preparation](#)

ReB2 [preparation, band structure](#)

B -Re-Tb

Tb3ReB7 [crystal structure, space group, lattice parameters](#)

B -Re-Tm

Tm3ReB7 [crystal structure, space group, lattice parameters](#)

B -Re-U

U2ReB6 [preparation, crystalline structure](#)

B -Re-Y

Y3ReB7 [crystal structure, space group, lattice parameters](#)

B -Rh

Rh5B4 [preparation, crystal structure, space group, lattice parameters](#)

Rh7B3 [preparation, crystal structure, electrical conductivity](#)

RhB(1.1) [preparation, crystal structure, electrical conductivity, melting point, formation enthalpy](#)

B -Rh-Ru-Y

YRh(4-x)Ru(x)B4 [density of states, crystal structure](#)

B -Rh-Sm

SmRh3B [preparation, crystal structure](#)

SmRh4B4 [crystal structure, critical temperature of superconductivity, chemical bond, critical temperatures of superconductivity, ferro- and antiferromagnetism, magnetic ordering](#)

B -Rh-Th

ThRh4B4 [space group](#)

ThRh4B4 [crystal structure, critical temperature of superconductivity](#)

B -Rh-Tm

TmRh₄B₄ [crystal structure, critical temperature of superconductivity, chemical bond, critical temperatures of superconductivity, ferro- and antiferromagnetism, magnetic ordering](#)

B -Rh-Y

YRh₄B₄ [critical temperature of superconductivity](#)

YRh₄B₄ [crystal structure, critical temperature of superconductivity](#)

B -Rh-Yb

YbRh₃B [preparation, crystal structure](#)

B -Ru

Ru₁₁B₈ [crystal structure](#)

Ru₂B₃ [crystal structure](#)

Ru₇B₃ [crystal structure, space group, lattice parameters, critical temperature of superconductivity](#)

RuB(1.1) [crystal structure, melting point, formation enthalpy](#)

RuB₂ [preparation, crystal structure, band structure](#)

B -Ru-Sc

ScRu₄B₄ [preparation, critical temperature of superconductivity, entropy](#)

B -Ru-Tb

TbRuB₄ [crystal structure, magnetic ordering](#)

B -Ru-Tm

TmRuB₄ [crystal structure, magnetic ordering](#)

B -Ru-U

URu₃B₂ [intermediate valence behavior](#)

URuB₄ [preparation, crystalline structure](#)

B -Ru-Y

YRuB₂ [crystal structure, critical temperature of superconductivity](#)

YRuB₄ [crystal structure, magnetic ordering](#)

B -S

(B₂S₃)(n) [preparation](#)

B₁₂S [alpha-rhombohedral boron structure group: crystal structure](#)

B₁₂S(2-x) [preparation, crystal structure, space group, lattice parameters, interatomic distances](#)

B₁₂S₂ [alpha-rhombohedral boron structure group: crystal structure](#)

B₂S₂ [preparation](#)

B₂S₃ [preparation, crystal structure, IR emission and absorption spectra](#)

B₄S [preparation](#)

BS [preparation](#)

(BS₂)(n) [preparation](#)

B -Sc

ScB₁₂ [preparation, crystalline structure, band structure](#)

ScB₂ [preparation, crystalline structure, band structure, entropy](#)

ScB₄ [preparation](#)

B -Se

B₁₂Se(2-x)B(x) [alpha-rhombohedral boron structure group: crystal structure](#)

B13Se	crystal structure, space group, lattice parameters, atomic positions
B2Se3	crystal structure, space group, lattice parameters, IR absorption maxima wavenumbers, density, melting point, glass softening temperature
B -Si	
B(12-x)Si(x)Si2	alpha-rhombohedral boron structure group: crystal structure
B14Si	beta-rhombohedral boron structure group: crystal structure
B36Si	beta-rhombohedral boron structure group: crystal structure
Si(1-x)B(x)	Peltier energy, activation energy of electrical conductivity, density of states, thermopower, optical gap, g-value, spin density, absorption coefficient, IR transmission
Si11B31	preparation, crystal structure
SiB(2.89)	crystal structure, lattice parameters, interatomic distances
SiB12	preparation, crystal structure
SiB14	crystal structure, lattice parameters, conductivity, resistivity, thermoelectric power, mobility, trap level, dielectric constants, thermal conductivity, density
SiB3	preparation, crystal structure, lattice parameters, Raman spectrum
SiB4	crystal structure, space group, lattice, resistivity, thermal conductivity, density, melting point, thermal expansion, microhardness, Young's modulus
SiB6	preparation, crystal structure, lattice parameters, resistivity, Hall effect, thermopower, Raman spectrum of amorphous SiB6, density, melting point, volume expansion coefficient, microhardness
SiB6	further structure groups: crystal structure
SiB6	orthorhombic SiB6 structure: crystal structure
B -Si-Tb	
TbB41Si(1.2)	magnetic susceptibility, magnetization, heat capacity
TbB41Si(1.2)	structure group of the REB50-type borides: preparation, crystal structure, space group, magnetization, magnetic susceptibility, specific heat
B -Si-Y	
YB(x)Si(1+y)	crystal structure, space group, lattice parameters, atomic positions, resistivity, Hall mobility, thermoelectric power
YB41Si(1.2)	structure group of the REB50-type borides: preparation, crystal structure, space group
YB44Si(1.0)	structure group of the REB50-type borides: preparation, crystal structure, space group
B -Sm	
SmB4	crystal structure, space group, melting point, entropy, microhardness
SmB4	crystal structure, lattice parameters, thermal and electrical conductivity
SmB6	phonon wavenumbers
SmB6	Einstein temperature
SmB6	preparation, lattice parameters, band structure, energy gap, magnetic moment, density of states, electrical resistivity, impurities and defects, thermal expansion, thermal vibrations, Debye temperature, phonon dispersion curve, phonon wavenumber, elastic constants, bulk modulus, electrical conductivity, Hall coefficient, carrier mobility, carrier concentration, permittivity spectra, thermoelectric power, magnetoresistance, magnetic susceptibility, optical conductivity, reflectivity spectrum, dielectric function, density, thermal conductivity, thermal expansion, heat capacity, Debye temperature, melting point, Einstein temperature, microhardness, entropy, work function,
SmB6	resistivity, Raman spectra, reflectivity, dielectric function,
SmB6	crystal structure, lattice parameters, force constants, work function, effective magnetic moment, phonon frequencies, thermal conductivity, magnetic susceptibility, vibrational wavenumbers, resistivity, thermopower, Einstein temperature, band structure, reflectivity spectrum
SmB66	energy gap, electrical conductivity, carrier concentration, Hall mobility, Seebeck coefficient, thermoelectirc power
SmB66	resistivity, reflectivity spectrum
SmB66	further structure groups: crystal structure
B -Sm-Yb	
Sm(1-x)Yb(x)B6	effective valence, optical absorption
B -Sr	
SrB6	crystal structure, space group, electron density, lattice parameters, band structure, density of states, energy gap, vibrational frequencies, entropy, IR diffuse reflectance spectrum, Raman spectrum, resistivity, density, melting point, thermal expansion, work function

SrB6	reflectance spectrum
SrB6	crystal structure, lattice parameters, force constants, work function, effective magnetic moment, phonon frequencies, thermal conductivity, magnetic susceptibility, vibrational wavenumbers, resistivity, thermopower, Einstein temperature, band structure
B -Ta	
Ta2B	heat capacity of compounds with group Vb elements
Ta2B	preparation, crystal structure, band structure, heat capacity
Ta3B2	preparation, crystal structure
Ta3B4	preparation, crystal structure, lattice parameters, microhardness
Ta5B6	preparation, crystal structure, space group, lattice parameters, density
TaB	heat capacity of compounds with group Vb elements
TaB	preparation, crystal structure, lattice parameters, band structure, heat capacity, critical temperature for superconductivity, microhardness
TaB2	heat capacity of compounds with group Vb elements
TaB2	preparation, crystal structure, band structure, lattice parameters, heat capacity, thermal expansion, microhardness
B -Tb	
TbB12	crystal structure, entropy, magnetic susceptibility, effective magnetic moments, paramagnetic Curie points
TbB12	crystal structure, lattice parameters, band structure, cluster energy levels
TbB25	crystal structure, space group, magnetic susceptibility
TbB4	preparation, crystal structure, space group, lattice parameters, phase transitions, magnetic susceptibility, melting point, microhardness, resistivity, thermoelectric power, Hall coefficient
TbB4	crystal structure, lattice parameters, thermal and electrical conductivity, resistivity, Hall coefficient, electron density, electron mobility, thermopower
TbB50	crystal structure, space group, lattice parameters, magnetic susceptibility, magnetization, heat capacity
TbB50	structure group of the REB50-type borides: preparation, crystal structure, space group, magnetization
TbB6	reflectivity spectrum
TbB6	reflectance spectrum
TbB6	phonon wavenumbers
TbB6	lattice parameters, force constants, vibrational modes, reflection and Raman spectra
TbB6	crystal structure, lattice parameters, force constants, work function, effective magnetic moment, phonon frequencies, thermal conductivity, magnetic susceptibility, vibrational wavenumbers, resistivity, thermopower, Einstein temperature, band structure, reflectivity spectrum
TbB66	lattice parameters, magnetic susceptibility
TbB66	further structure groups: crystal structure
B -Tc	
Tc3B	preparation
Tc7B3	preparation
TcB2	preparation, band structure
B -Th	
ThB4	preparation, crystalline structure, electronic structure, ESR spectra, lattice parameters, entropy, melting point, microhardness
ThB4	crystal structure, lattice parameters, thermal and electrical conductivity
ThB6	preparation, crystalline structure, electronic structure, ESR spectra, critical temperature of superconductivity, thermal expansion, entropy, microhardness
ThB6	crystal structure, lattice parameters, force constants, work function, effective magnetic moment, phonon frequencies, thermal conductivity, magnetic susceptibility, vibrational wavenumbers, resistivity, thermopower, Einstein temperature, band structure
ThB66	preparation, crystalline structure
ThB76	preparation, crystalline structure

B -Th-U

U(1-x)Th(x)B4 [magnetic properties](#)

B -Ti

Ti2B5 [preparation, crystal structure](#)

Ti3B4 [preparation, crystal structure, chemical bond](#)

TiB [preparation, crystal structure, band structure, chemical bond](#)

TiB2 [preparation, crystal structure, band structure, chemical bond, electrical conductivity, space group, lattice parameters, inner lattice potential, work function, density of states, resistivity, Hall coefficient, carrier concentration, carrier mobility, deHaas-vanAlphen effect, irradiation-induced damage rates, thermal expansion coefficient, Young's modulus, sound velocity, phonon wavenumbers, heat capacity, formation enthalpy, thermal diffusivity, microhardness, density](#)

TiB2 [crystal structure](#)

(B12)4B2Ti(x) [preparation, crystal structure](#)

B -Tm

TmB12 [crystal structure, lattice parameters, resistivity, electrical conductivity, Neel temperature, Curie temperature, effective magnetic moments, magnetic susceptibility, entropy](#)

TmB12 [crystal structure, lattice parameters, band structure, cluster energy levels](#)

TmB4 [crystal structure, space group, lattice parameters, resistivity, melting point, microhardness](#)

TmB4 [crystal structure, lattice parameters, thermal and electrical conductivity, resistivity, Hall coefficient, electron density, electron mobility](#)

TmB66 [further structure groups: crystal structure](#)

B -U

UB12 [preparation, crystalline structure, magnetic properties, space group, lattice parameters, entropy](#)

UB12 [crystal structure, lattice parameters, band structure, cluster energy levels](#)

UB2 [preparation, crystalline structure, magnetic properties, space group, lattice parameters, entropy](#)

UB4 [preparation, crystalline structure, magnetic properties, space group, lattice parameters, entropy, melting point, microhardness](#)

UB4 [crystal structure, lattice parameters, thermal and electrical conductivity](#)

B -V

V2B3 [preparation, crystal structure, space group, lattice parameters, density, resistivity, microhardness](#)

V3B2 [heat capacity of compounds with group Vb elements](#)

V3B2 [preparation](#)

V3B4 [preparation, crystal structure, space group, lattice parameters, density, resistivity, microhardness, heat capacity](#)

V5B6 [preparation, crystal structure, space group, lattice parameters, density](#)

V82B18 [internal friction](#)

V84B16 [internal friction](#)

V86B14 [internal friction](#)

VB [heat capacity of compounds with group Vb elements](#)

VB [preparation, crystal structure, space group, lattice parameters, density, band structure, resistivity, microhardness, heat capacity](#)

VB2 [heat capacity of compounds with group Vb elements](#)

VB2 [preparation, crystal structure, band structure, space group, electrical conductivity, lattice parameters, density, resistivity, microhardness, heat capacity](#)

B -W

W2B [preparation, crystal structure, space group, lattice parameters, band structure, density, resistivity, critical temperature of superconductivity, microhardness, heat capacity](#)

W2B5 [preparation, crystal structure](#)

WB [preparation, crystal structure, space group, lattice parameters, resistivity, microhardness](#)

WB12 [preparation, crystal structure](#)

WB2 [preparation, crystal structure, space group, lattice parameters, density, resistivity](#)

WB4	preparation, crystal structure
B -Y	
YB(66-x)	further structure groups: crystal structure, thermal conductivity
YB12	preparation, crystalline structure, magnetic susceptibility, density of states, critical temperature of superconductivity, entropy
YB12	crystal structure, lattice parameters, band structure, cluster energy levels
YB2	preparation, crystal structure, entropy
YB25	crystal structure, space group, lattice parameters
YB25	crystal structure, space group, lattice parameters
YB25	further structure groups: crystal structure
YB4	preparation, crystal structure, thermal and electrical conductivity, band structure, anisotropy of the Hass-vanAlphen frequencies, melting point, entropy, microhardness
YB4	crystal structure, lattice parameters, thermal and electrical conductivity, resistivity, Hall coefficient, electron density, electron mobility
YB50	preparation, crystal structure, space group, lattice parameters
YB50	crystal structure, lattice parameters, magnetic susceptibility, magnetization, heat capacity
YB50	structure group of the REB50-type borides: preparation, crystal structure, space group
YB56	further structure groups: crystal structure
YB6	preparation, crystal structure, magnetic susceptibility, electrical conductivity, electronic transport properties, electronic density of states, critical temperature of superconductivity, phonon density of states, electron tunneling, microhardness, melting point, entropy, thermal expansion
YB6	phonon wavenumbers
YB6	crystal structure, lattice parameters, force constants, work function, effective magnetic moment, phonon frequencies, thermal conductivity, magnetic susceptibility, vibrational wavenumbers, resistivity, thermopower, Einstein temperature, band structure
YB62	further structure groups: crystal structure
YB66	crystal structure, space group, lattice parameters, band structure, density of states, energy gap, interband transitions, optical absorption, photoconductivity, binding energies, impurities and defects, elastic moduli, sound velocity, resistivity, activation energies, Hall mobility, thermoelectric power, magnetoresistance, phonon frequencies, Raman spectrum, refractive index, dielectric constant, thermal conductivity, phonon mean free path, heat capacity, Debye temperature, density, acoustic phonon cutoff, acoustic attenuation, melting point, internal friction
YB66	further structure groups: crystal structure
B -Yb	
YbB12	crystal structure, thermal expansion, reflectivity spectrum, entropy, magnetic susceptibility, effective magnetic moments, paramagnetic Curie points
YbB12	crystal structure, lattice parameters, band structure, cluster energy levels
YbB4	crystal structure, space group, lattice parameters, density, resistivity, melting point
YbB4	crystal structure, lattice parameters, thermal and electrical conductivity
YbB6	thermoelectric power, electrical conductivity, resistivity, reflectivity spectrum, carrier concentration
YbB6	reflectance spectrum
YbB6	phonon wavenumbers
YbB6	Einstein temperature
YbB6	resistivity
YbB6	preparation, crystal structure, space group, lattice parameters, interatomic distances, energy gap, optical transition energies, absorption spectrum, effective mass of electrons, impurities and defects (lattice parameters and carrier concentration), vibrational frequencies, thermal expansion, phonon dispersion curves, force constants, phonon wavenumbers, elastic constants, bulk modulus conductivity, resistivity, thermopower, Hall coefficient, reflectivity, dielectric function, Raman spectra, lattice dielectric constant, density, microhardness, Debye temperature, specific heat, melting point, work function, magnetic moment, magnetic susceptibility, Curie temperature
YbB6	crystal structure, lattice parameters, force constants, work function, effective magnetic moment, phonon frequencies, thermal conductivity, magnetic susceptibility, vibrational wavenumbers, resistivity, thermopower, Einstein temperature, band structure, reflectivity spectrum
YbB66	energy gap, electrical conductivity, thermoelectric power, carrier concentration, Hall mobility, Seebeck coefficient
YbB66	further structure groups: crystal structure

B -Zn

B48B2Zn2	alpha-tetragonal boron structure group: crystal structure
ZnB22	crystal structure, resistivity, optical transmission, density, microhardness, magnetic susceptibility

B -Zr

ZrB	critical temperature of superconductivity, band structure
ZrB12	preparation, crystal structure, Curie temperature, critical temperature for superconductivity
ZrB2	preparation, crystal structure, space group, band structure, electrical conductivity, space group, interatomic distances, activation energy of chemical reaction, electronic density of states, resistivity, Hall coefficient, carrier mobility and concentration, heat capacity, thermal diffusivity

Bi-Co-Sb

CoSb(3-x)Bi(x)	doping and ternary phases of transition element tripnictides: solubility
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Bi-Ir

IrBi2	crystallographic data of transition-element dipnictides with octahedrally coordinated cations: space group, lattice parameters, density
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Bi-Ir-S

IrBiS	crystallographic and physical data for pyrite-type derivatives: crystal structure, lattice parameters, energy gap, Seebeck coefficient
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Bi-Ir-Se

IrBiSe	crystallographic and physical data for pyrite-type derivatives: crystal structure, lattice parameters, energy gap, Seebeck coefficient
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Bi-Ir-Te

IrBiTe	crystallographic and physical data for pyrite-type derivatives: crystal structure, lattice parameters, energy gap, Seebeck coefficient
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Bi-Os-Se

OsBiSe	physical properties
OsBiSe	crystallographic data for the arsenopyrite-type compounds: lattice parameters, space group, density

Bi-Pt

PtBi2	crystallographic data of transition-element dipnictides with octahedrally coordinated cations: space group, lattice parameters, density
PtBi2	interatomic distances in pyrite- and pararammelsbergite-type transition element dipnictides

Bi-Pt-Sb

PtSbBi	crystallographic data of transition-element dipnictides with octahedrally coordinated cations: space group, lattice parameters, density
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Bi-Rh

RhBi2	physical properties
RhBi2	crystallographic data of transition-element dipnictides with octahedrally coordinated cations: space group, lattice parameters, density
RhBi2	interatomic distances for binary arsenopyrite-type phases of transition element dipnictides

Bi-Rh-S

RhBiS	crystallographic and physical data for pyrite-type derivatives: crystal structure, lattice parameters, energy gap, Seebeck coefficient
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Bi-Rh-Se

RhBiSe	crystallographic and physical data for pyrite-type derivatives: crystal structure, lattice parameters, energy gap, Seebeck coefficient
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Bi-Rh-Te

RhBiTe	crystallographic and physical data for pyrite-type derivatives: crystal structure, lattice parameters, energy gap, Seebeck coefficient
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Bi-Ru-Se

RuBiSe	crystallographic data for the arsenopyrite-type compounds: lattice parameters, space group, density
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C -Mo

Mo2C	heat capacity of compounds with group Vb elements
MoC	heat capacity of compounds with group Vb elements

C -Nb

Nb₂C [heat capacity of compounds with group Vb elements](#)

NbC [heat capacity of compounds with group Vb elements](#)

C -Ta

Ta₂C [heat capacity of compounds with group Vb elements](#)

TaC [heat capacity of compounds with group Vb elements](#)

C -V

V₂C [heat capacity of compounds with group Vb elements](#)

VC [heat capacity of compounds with group Vb elements](#)

Ce-Fe-P

CeFe₄P₁₂ [crystal structure, chemical bond of transition element tripnictides](#)

Ce-Fe-Sb

CeFe₄Sb₁₂ [crystal structure, chemical bond of transition element tripnictides](#)

Ce-H

CeH(x) [crystal structure, physical properties](#)

CeD(x) [crystal structure](#)

Ce-S

Ce₂S₃ [crystal structure, physical properties](#)

CeS₂ [crystal structure, physical properties](#)

Ce-Se

Ce₂Se₃ [crystal structure, physical properties](#)

Ce-Te

Ce₂Te₃ [crystal structure, physical properties](#)

Cl-Gd

Gd₂Cl₃ [crystal structure, physical properties](#)

Cl-La

La₂Cl₃ [crystal structure, physical properties](#)

Cl-Lu

Lu₂Cl₃ [crystal structure, physical properties](#)

Cl-Tb

Tb₂Cl₃ [crystal structure, physical properties](#)

Cl-Tm

Tm₂Cl₃ [crystal structure, physical properties](#)

Cl-Y

Y₂Cl₃ [crystal structure, physical properties](#)

B -Co

Co₃B [preparation, crystal structure, band structure](#)

Co-Cu-Sb

Co(1-x)Cu(x)Sb₃ [crystal structure, chemical bond of transition element tripnictides](#)

Co-Fe-Sb

Co(1-x)Fe(x)Sb ₃	doping and ternary phases of transition element tripnictides: solubility, resistivity, thermopower
Fe(1-x)Co(x)Sb ₂	physical properties

Co-Ge-S

Co ₂ Ge ₃ S ₃	crystal structure, chemical bond of transition element tripnictides
CoGe(1.5)S(1.5)	crystallographic and physical data for semiconducting skutterudite-type pseudo-pnictides

Co-Ge-Sb

CoSb(3-x)Ge(x)	crystal structure, chemical bond of transition element tripnictides
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Co-Ge-Se

Co ₂ Ge ₃ Se ₃	crystal structure, chemical bond of transition element tripnictides
CoGe(1.5)Se(1.5)	crystallographic and physical data for semiconducting skutterudite-type pseudo-pnictides

Co-Mn-P

Mn(1/2)Co(1/2)P ₂	crystallographic data of transition-element dipnictides with octahedrally coordinated cations: space group, lattice parameters, density
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Co-Ni-Sb

Co(1-x)Ni(x)Sb ₂	physical properties
Co(1-x)Ni(x)Sb ₃	doping and ternary phases of transition element tripnictides: solubility, resistivity, electron mobility, microhardness, thermoelectric power
Co(1-x)Ni(x)Sb ₃	physical data for skutterudite-type semiconductors: energy gap, resistivity, electrical conductivity, thermoelectric power, mass susceptibility

Co-O

Co ₃ O ₄	band structure energies
Co ₃ O ₄	crystal structure, lattice parameters, Debye temperature
Co ₃ O ₄	electrical conductivity, Seebeck coefficient
Co ₃ O ₄	magnetic properties
CoO	band structure, energy gap, interband transition energies
CoO	defects
CoO	elastic moduli, Debye temperature
CoO	electrical conductivity, Seebeck coefficient
CoO	hole mobility
CoO	magnetic properties
CoO	optical properties, dielectric constants
CoO	phase diagram, crystal structure, lattice parameters
CoO	phonon wavenumbers

Co-P

CoP ₂	physical properties
CoP ₂	crystallographic data of transition-element dipnictides with octahedrally coordinated cations: space group, lattice parameters, density
CoP ₃	crystallographic data for semiconducting skutterudite-type compounds TX₃: lattice parameters, space group, atomic positions, density
CoP ₃	physical data for skutterudite-type semiconductors: energy gap, resistivity, electrical conductivity, thermoelectric power, mass susceptibility

Co-P -S

CoPS	physical properties
CoPS	crystallographic and physical data for pyrite-type derivatives: crystal structure, lattice parameters, density, energy gap, Seebeck coefficient

Co-P -Se

CoPSe	crystallographic and physical data for pyrite-type derivatives: crystal structure, lattice parameters, energy gap, Seebeck coefficient
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CoPSe [physical properties](#)

Co-Pb-Sb

CoSb(3-x)Pb(x) [crystal structure, chemical bond of transition element tripnictides](#)

Co-S -Sb

CoSbS [physical properties](#)

CoSbS [crystal structure, chemical bond](#)

CoSbS [crystallographic and physical data for pyrite-type derivatives: crystal structure, lattice parameters, energy gap, Seebeck coefficient](#)

CoSbS [crystallographic data for ternary marcasite-type semiconductors: lattice parameters, space group, density](#)

CoSb2 [crystal structure, physical properties](#)

CoSb2 [crystal structure, chemical bond of transition element dipnictides](#)

CoSb2 [crystallographic data of transition-element dipnictides with octahedrally coordinated cations: space group, lattice parameters, density](#)

CoSb2 [interatomic distances for binary arsenopyrite-type phases of transition element dipnictides](#)

CoSb3 [crystal structure, chemical bond of transition element tripnictides](#)

CoSb3 [crystallographic data for semiconducting skutterudite-type compounds TX3: lattice parameters, space group, atomic positions, density](#)

CoSb3 [physical data for skutterudite-type semiconductors: energy gap, resistivity, electrical conductivity, thermoelectric power, mass susceptibility](#)

Co-Sb-Se

CoSb(3-x)Se(x) [crystal structure, chemical bond of transition element tripnictides](#)

CoSbSe [physical properties](#)

CoSbSe [crystallographic data for ternary marcasite-type semiconductors: lattice parameters, space group, density](#)

Co-Sb-Si

CoSb(3-x)Si(x) [crystal structure, chemical bond of transition element tripnictides](#)

Co-Sb-Sn

CoSb(3-x)Sn(x) [physical properties](#)

Co-Sb-Te

CoSb(2-x)Te(x) [physical properties](#)

CoSb(3-x)Te(x) [physical properties](#)

CoSbTe [physical properties](#)

CoSbTe [crystallographic data for ternary marcasite-type semiconductors: lattice parameters, space group, density](#)

Co-Sb-Ti

Co(1-x)Ti(x)Sb3 [crystal structure, chemical bond of transition element tripnictides](#)

Co-Sb-Zn

Co(1-x)Zn(x)Sb3 [crystal structure, chemical bond of transition element tripnictides](#)

Cr-Fe-Sb

Cr(1-x)Fe(x)Sb2 [physical properties](#)

Cr-O

Cr(x)O(y) [crystal structure, general characterization](#)

Cr2O3 [band structure, energy gap](#)

Cr2O3 [crystal structure, lattice parameters](#)

Cr2O3 [hole mobility, pressure dependence of transport parameters](#)

Cr2O3 [magnetic properties](#)

Cr2O3 [optical properties, dielectric constants](#)

Cr2O3	phonon wavenumbers, elastic moduli
Cr2O3	thermal expansion, density, melting point
Cr2O3	transport (effect of dopants)
Cr2O3	transport mechanism, conductivity
CrO2	character of outer d-electrons: bandwidth, electrostatic correlation energies, crystallographic phase changes and semiconductor-metal transitions

Cr-O –V

Cr(x)V(1-x)O2	conductivity, thermopower
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Cr-P

CrP4	crystal structure, chemical bond of transition metal tetraphosphides
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Cr-Re-Si

Re(1-x)Cr(x)Si2	physical properties
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Cr-S

Cr2S3	crystal structure, physical properties
Cr2S3	crystal structure, chemical bond, general characterization
CrS	crystal structure, physical properties
CrS	crystal structure, chemical bond, general characterization

Cr-Sb

CrSb2	physical properties
CrSb2	crystal structure, chemical bond of transition element dipnictides
CrSb2	crystallographic data of transition-element dipnictides with octahedrally coordinated cations: space group, lattice parameters, density
CrSb2	interatomic distances in marcasite- and loellingite-type transition element dipnictides

Cr-Se

CrSe	crystal structure, physical properties
Cr(2+x)Se3	crystal structure, physical properties
Cr2Se3	crystal structure, chemical bond, general characterization
Cr3Se4	crystal structure, physical properties
Cr3Se4	crystal structure, chemical bond, general characterization

Cr-Si

CrSi2	crystal structure of CrSi2 and other TSi2 phases
CrSi2	density, melting point
CrSi2	electronic properties
CrSi2	lattice parameters of CrSi2 phases
CrSi2	magnetic properties
CrSi2	physical properties of CrSi2-type ternary alloys
CrSi2	transport properties

Cr-Te

Cr(1-x)Te	crystal structure, physical properties
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Dy-H

DyH3	crystal structure
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Dy-O

Dy2O3	crystal structure, physical properties
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Dy-S

Dy₂S₃ [crystal structure, physical properties](#)

Dy-Se

Dy₂Se₃ [crystal structure, physical properties](#)

Er-H

ErH₃ [crystal structure](#)

ErD(x) [crystal structure, physical properties](#)

Er-O

Er₂O₃ [crystal structure, physical properties](#)

Er-P

ErP [crystal structure, physical properties](#)

Er-S

Er₂S₃ [crystal structure, physical properties](#)

Eu-H

EuH₂ [crystal structure, physical properties](#)

Eu-O

Eu₂O₃ [crystal structure, physical properties](#)

EuO [crystal structure, physical properties](#)

Eu-S

Eu₃S₄ [crystal structure, physical properties](#)

EuS [crystal structure, physical properties](#)

Eu-Se

Eu₂Se₃ [physical properties](#)

Eu₃Se₄ [physical properties](#)

EuSe [crystal structure, physical properties](#)

Eu-Se-Tm

Tm(1-x)Eu(x)Se [crystal structure, physical properties](#)

Eu-Te

Eu₃Te₄ [crystal structure, physical properties](#)

EuTe [crystal structure, physical properties](#)

F -O -V

VO(2-x)F(x) [conductivity](#)

Fe-Ni-Sb

Fe(1/2)Ni(1/2)Sb₂ [crystallographic data of transition-element dipnictides with octahedrally coordinated cations: space group, lattice parameters, density](#)

Fe(1/2)Ni(1/2)Sb₂ [interatomic distances in marcasite- and loellingite-type transition element dipnictides](#)

Fe(1/2)Ni(1/2)Sb₃ [crystal structure, chemical bond of transition element tripnictides](#)

Fe(1/2)Ni(1/2)Sb₃ [crystallographic data for semiconducting skutterudite-type compounds TX₃: lattice parameters, space group, atomic positions, density](#)

Fe(1-x)Ni(x)Sb₂ [physical properties](#)

Fe-O

Fe₂O₃ [peak energies in optical spectra](#)

Fe₂O₃ [phonon wavenumbers](#)

Fe2O3	Seebeck coefficient, carrier mobilities in pure Fe2O3
Fe2O3	transport properties in doped Fe2O3
Fe2O3	band structure
Fe2O3	carrier concentration, electrical conductivity in pure Fe2O3
Fe2O3	defects in pure Fe2O3
Fe2O3	general characterization, crystal structure, lattice parameters
Fe2O3	magnetic properties
Fe2O3	melting point, density
Fe2O3	optical properties, dielectric constants
Fe3O4	band structure
Fe3O4	crystal structure, high temperature phase
Fe3O4	crystal structure, lattice parameters, low temperature phase
Fe3O4	defect equilibria
Fe3O4	electrical conductivity
Fe3O4	heat capacity, Debye temperature
Fe3O4	influence of substitution
Fe3O4	lattice parameters, thermal expansion, density, high temperature phase
Fe3O4	magnetic properties
Fe3O4	magnetoresistance, Hall effect data
Fe3O4	optical properties, dielectric constants
Fe3O4	phonon dispersion, phonon wavenumbers
Fe3O4	Seebeck coefficient
Fe3O4	character of outer d-electrons: bandwidth, electrostatic correlation energies, crystallographic phase changes and semiconductor-metal transitions
FeO (Fe(1-x)O)	band structure
FeO (Fe(1-x)O)	carrier mobility
FeO (Fe(1-x)O)	conductivity
FeO (Fe(1-x)O)	defects
FeO (Fe(1-x)O)	elastic moduli, Debye temperature
FeO (Fe(1-x)O)	lattice parameters, density
FeO (Fe(1-x)O)	magnetic properties
FeO (Fe(1-x)O)	optical properties, dielectric constant
FeO (Fe(1-x)O)	phase diagram, crystal structure
FeO (Fe(1-x)O)	phonon dispersion, phonon wavenumbers
FeO (Fe(1-x)O)	Seebeck coefficient
Fe-O -V	
Fe(x)V(1-x)O2	conductivity, thermopower
Fe-P	
FeP2	physical properties
FeP2	crystallographic data of transition-element dipnictides with octahedrally coordinated cations: space group, lattice parameters, density
FeP2	interatomic distances in marcasite- and loellingite-type transition element dipnictides
FeP4	physical properties

FeP₄ [crystal structure, chemical bond of transition metal tetraphosphides](#)

FeP₄ [crystallographic data for the transition-element tetraphosphides](#)

FeP₄ [interatomic distances in transition element tetraphosphides](#)

Fe-P -S

FePS [physical properties](#)

FePS [crystallographic data for the arsenopyrite-type compounds: lattice parameters, space group, density](#)

Fe-P -Se

FePSe [physical properties](#)

FePSe [crystallographic data for the arsenopyrite-type compounds: lattice parameters, space group, density](#)

Fe-P -Th

ThFe₄P₁₂ [crystal structure, chemical bond of transition element tripnictides](#)

Fe-S

Fe₃S₄ [crystal structure, chemical bond, general characterization](#)

Fe₇S₈ [crystal structure, chemical bond, general characterization](#)

FeS₂ [crystal structure, chemical bond, general characterization](#)

Fe(1-x)S [crystal structure, physical properties](#)

FeS [crystal structure, chemical bond, general characterization](#)

FeS(1-x) [crystal structure, chemical bond, general characterization](#)

FeS [character of outer d-electrons: bandwidth, electrostatic correlation energies, crystallographic phase changes and semiconductor-metal transitions](#)

FeS₂ [crystal structure, physical properties](#)

FeS₂ [crystal structure, chemical bond, general characterization](#)

Fe-Sb

FeSbS [crystal structure](#)

FeSbS [crystallographic data for the arsenopyrite-type compounds: lattice parameters, space group, density](#)

FeSb₂ [crystallographic data of transition-element dipnictides with octahedrally coordinated cations: space group, lattice parameters, density](#)

FeSb₂ [interatomic distances in marcasite- and loellingite-type transition element dipnictides](#)

Fe-Sb-Se

FeSbSe [crystallographic data for the arsenopyrite-type compounds: lattice parameters, space group, density](#)

Fe-Sb-Te

FeSb(2-x)Te(x) [physical properties](#)

FeSbTe [physical properties](#)

FeSbTe [crystallographic data for the arsenopyrite-type compounds: lattice parameters, space group, density](#)

Fe-Se

FeSe [crystal structure, chemical bond, general characterization](#)

Fe₂Se₃ [crystal structure, chemical bond, general characterization](#)

Fe₇Se₈ [crystal structure, chemical bond, general characterization](#)

Fe(1-x)Se [crystal structure, physical properties](#)

FeSe(2-x) [crystal structure, physical properties](#)

FeSe₂ [crystal structure, physical properties](#)

FeSe₂ [crystal structure, chemical bond, general characterization](#)

Fe-Si

FeSi2	coordination distances of the atoms in the orthorhombic phase
FeSi2	crystal structures of FeSi2 and other TSi2 phases
FeSi2	electronic properties
FeSi2	lattice parameters, density for FeSi2 phases
FeSi2	magnetic properties
FeSi2	optical properties, dielectric constants
FeSi2	phase transitions, Debye temperature, heat capacity, density
FeSi2	transport properties

Fe-Te

Fe(1-x)Te	crystal structure, physical properties
FeTe2	crystal structure, physical properties
FeTe2	crystal structure, chemical bond, general characterization
Fe2Te3	crystal structure, chemical bond, general characterization

Ga-O -V

Ga(x)V(1-x)O2	conductivity, thermopower
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Gd-H

GdH(x)	crystal structure, physical properties
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Gd-O

Gd2O3	crystal structure, physical properties
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Gd-S

Gd2S3	crystal structure, physical properties
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Gd-Se

Gd2Se3	crystal structure, physical properties
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Ge-Ir-Se

Ir2Ge3S3	crystal structure, chemical bond of transition element tripnictides
IrGe(1.5)S(1.5)	crystallographic and physical data for semiconducting skutterudite-type pseudo-pnictides
Ir2Ge3Se3	crystal structure, chemical bond of transition element tripnictides
IrGe(1.5)Se(1.5)	crystallographic and physical data for semiconducting skutterudite-type pseudo-pnictides

Ge-Os

Os2Ge3	crystal structure, chemical bond of Os(n)Ge(2n-m) compounds
Os2Ge3	space group, lattice parameters, density (room temperature modification)

Ge-Pt-Se

PtGeSe	crystal structure, chemical bond
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Ge-Re-S

ReGe(1.5)S(1.5)	crystallographic and physical data for semiconducting skutterudite-type pseudo-pnictides
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Ge-Rh-S

Rh2Ge3S3	crystal structure, chemical bond of transition element tripnictides
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Ge-Rh-Se

RhGe(1.5)Se(1.5)	crystallographic and physical data for semiconducting skutterudite-type pseudo-pnictides
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Ge-Ru

Ru ₂ Ge ₃	crystal structure, chemical bond of Ru(n)Ge(2n-m) compounds
Ru ₂ Ge ₃	physical properties
Ru ₂ Ge ₃	space group, lattice parameters, density (room temperature modification)

H -Ho

HoH ₃	crystal structure
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H -La

LaH(x)	crystal structure, physical properties
LaD(x)	crystal structure, physical properties

H -Nd

NdH(x)	crystal structure, physical properties
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H -Pr

PrH(x)	crystal structure, physical properties
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H -Y

YH(x)	crystal structure, physical properties
YD(x)	crystal structure, physical properties

H -Yb

YbH(x)	crystal structure, physical properties
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Hf-S

Hf ₂ S ₃	crystal structure, physical properties
Hf ₂ S ₃	crystal structure, chemical bond, general characterization
HfS ₂	crystal structure, physical properties
HfS ₂	crystal structure, chemical bond, general characterization
HfS ₃	crystal structure, physical properties

Hf-Se

Hf ₂ Se ₃	crystal structure, physical properties
Hf ₂ Se ₃	crystal structure, chemical bond, general characterization
HfSe ₂	crystal structure, physical properties

Ho-O

Ho ₂ O ₃	crystal structure, physical properties
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Ho-S

Ho ₂ S ₃	crystal structure, physical properties
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Ir-P

IrP ₂	physical properties
IrP ₂	crystallographic data of transition-element dipnictides with octahedrally coordinated cations: space group, lattice parameters, density
IrP ₂	interatomic distances for binary arsenopyrite-type phases of transition element dipnictides
IrP ₃	crystallographic data for semiconducting skutterudite-type compounds TX₃: lattice parameters, space group, atomic positions, density
IrP ₃	physical data for skutterudite-type semiconductors: energy gap, resistivity, electrical conductivity, thermoelectric power, mass susceptibility

Ir-P -S

IrPS	crystallographic and physical data for pyrite-type derivatives: crystal structure, lattice parameters, energy gap, Seebeck coefficient
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Ir-P -Se

IrPSe [crystallographic and physical data for pyrite-type derivatives: crystal structure, lattice parameters, energy gap, Seebeck coefficient](#)

Ir-S

IrS₂ [crystal structure, chemical bond, general characterization](#)

IrS₂ [crystal structure, physical properties](#)

IrS₃ [crystal structure, physical properties](#)

Ir-S -Sb

IrSbS [crystallographic and physical data for pyrite-type derivatives: crystal structure, lattice parameters, energy gap, Seebeck coefficient](#)

Ir-S -Sn

Ir₂Sn₃S₃ [crystal structure, chemical bond of transition element tripnictides](#)

IrSn(1.5)S(1.5) [crystallographic and physical data for semiconducting skutterudite-type pseudo-pnictides](#)

Ir-Sb

IrSb₂ [crystallographic data of transition-element dipnictides with octahedrally coordinated cations: space group, lattice parameters, density](#)

IrSb₂ [interatomic distances for binary arsenopyrite-type phases of transition element dipnictides](#)

IrSb₃ [crystal structure, chemical bond of transition element tripnictides](#)

IrSb₃ [crystallographic data for semiconducting skutterudite-type compounds TX₃: lattice parameters, space group, atomic positions, density](#)

IrSb₃ [physical data for skutterudite-type semiconductors: energy gap, resistivity, electrical conductivity, thermoelectric power, mass susceptibility](#)

Ir-Sb-Se

IrSbSe [crystallographic and physical data for pyrite-type derivatives: crystal structure, lattice parameters, energy gap, Seebeck coefficient](#)

Ir-Sb-Te

IrSbTe [crystallographic and physical data for pyrite-type derivatives: crystal structure, lattice parameters, energy gap, Seebeck coefficient](#)

Ir-Se

IrSe₂ [crystal structure, chemical bond, general characterization](#)

Ir₂/3Se₂ [crystal structure, physical properties](#)

Ir₂Se₃ [crystal structure, physical properties](#)

IrSe₂ [crystal structure, physical properties](#)

La-O

La₂O₃ [crystal structure, physical properties](#)

La-O -S

La₁₀S₁₄O, [crystal structure](#)

La₁₀S₁₄O(x)S(1-x)

La-P

LaP [crystal structure, physical properties](#)

La-S

La₂S₃ [crystal structure, physical properties](#)

LaS₂ [crystal structure, physical properties](#)

La-Se

La₂Se₃ [crystal structure, physical properties](#)

La-Te

La₂Te₃ [crystal structure, physical properties](#)

LaTe₂ [crystal structure, physical properties](#)

LaTe3	crystal structure, physical properties
Lu-P	
LuP	crystal structure, physical properties
Lu-S	
Lu2S3	crystal structure, physical properties
Mn-O	
Mn2O3	electrical conductivity, Seebeck effect
Mn2O3	lattice parameters of doped Mn2O3
Mn2O3	magnetic properties
Mn2O3	phase diagram, crystal structure, lattice parameters of high temperature phase
Mn2O3	phase diagram, crystal structure, lattice parameters of low temperature phase
Mn3O4	lattice parameters
Mn3O4	magnetic properties
Mn3O4	optical properties
Mn3O4	phase transition, crystal structure, entropy, enthalpy
Mn3O4	transport properties
Mn3O4	character of outer d-electrons: bandwidth, electrostatic correlation energies, crystallographic phase changes and semiconductor-metal transitions
MnO	band structure, energy gap
MnO	dielectric constants, refractive index
MnO	elastic moduli, Debye temperature
MnO	lattice defects
MnO	magnetic properties
MnO	melting point, free energy
MnO	optical properties
MnO	phase diagram, crystal structure, lattice parameters
MnO	phonon dispersion, phonon wavenumbers
MnO	transport data, effects of stoichiometry, doping
MnO	transport data, high temperatures
MnO	transport data, low and intermediate temperatures
MnO	character of outer d-electrons: bandwidth, electrostatic correlation energies, crystallographic phase changes and semiconductor-metal transitions
MnO2	density, heat capacity, thermodynamic data
MnO2	magnetic properties
MnO2	phase diagram, crystal structure, lattice parameters
MnO2	transport properties
Mn-P	
MnP4	crystal structure, chemical bond of transition metal tetraphosphides
MnP4	crystallographic data for the transition-element tetraphosphides
MnP4	interatomic distances in transition element tetraphosphides
MnP4	physical properties
Mn-Re-Si	
Re(1-x)Mn(x)Si2	physical properties

Mn-S

MnS	crystal structure, physical properties
MnS	general characterization, crystal structure, Hall coefficient,
MnS ₂	crystal structure, physical properties
MnS ₂	general characterization, crystal structure

Mn-Se

MnSe	crystal structure, physical properties
MnSe	general characterization, crystal structure, thermopower, resistivity, hole mobility

Mn-Si

Mn(n)Si(2n-m)	coordination distances of Mn₁₁Si₁₉
Mn(n)Si(2n-m)	coordination distances of Mn₁₅Si₂₆
Mn(n)Si(2n-m)	coordination distances of Mn₄Si₇
Mn(n)Si(2n-m)	energy gap, effective masses of Mn₁₁Si₁₉, Mn₂₆Si₄₅
Mn(n)Si(2n-m)	general characterization
Mn(n)Si(2n-m)	general remarks on structure, chemical bond
Mn(n)Si(2n-m)	magnetic properties of Mn₂₇Si₄₇
Mn(n)Si(2n-m)	physical properties of doped and ternary Mn(n)Si(2n-m) phases
Mn(n)Si(2n-m)	physical properties of Mn₁₅Si₂₆
Mn(n)Si(2n-m)	physical properties of Mn₂₇Si₄₇ (except magnetic properties)
Mn(n)Si(2n-m)	space group, lattice parameters of Mn(n)Si(m-n) and (Mn(1-x)T(x))_nSi(2n-m) systems
Mn(n)Si(2n-m)	transport and optical properties of Mn₁₁Si₁₉, Mn₂₆Si₄₅

Mn-Te

MnTe	crystal structure, physical properties
MnTe	general characterization, crystal structure
MnTe ₂	crystal structure, physical properties
MnTe ₂	general characterization, crystal structure

Mo

Mo	heat capacity of compounds with group Vb elements
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Mo-O

MoO ₃	defects
MoO ₃	electronic and ionic conductivity
MoO ₃	electronic properties (calculated cluster energies)
MoO ₃	energy gap
MoO ₃	optical properties, dielectric constants
MoO ₃	phase diagram, crystal structure, lattice parameters, interatomic distances
MoO ₃	phonon wavenumbers
MoO ₃	photocurrent
MoO ₃	thermal expansion, density

Mo-O -V

Mo(x)V(1-x)O ₂	conductivity
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Mo-P

MoP4 [crystal structure, chemical bond of transition metal tetrphosphides](#)

Mo-Re-Si

Re(1-x)Mo(x)Si2 [physical properties](#)

Mo-S

MoS2 [crystal structure, physical properties](#)

MoS2 [crystal structure, chemical bond, general characterization](#)

Mo-Se

MoSe2 [crystal structure, physical properties](#)

MoSe2 [crystal structure, chemical bond, general characterization](#)

Mo-Te

MoTe(2-x) [crystal structure, physical properties](#)

MoTe(2-x) [crystal structure, chemical bond, general characterization](#)

Nb

Nb [heat capacity of compounds with group Vb elements](#)

Nb-O

Nb2O5 [crystal structure, lattice parameters of M-Nb2O5](#)

Nb2O5 [crystal structure, lattice parameters of P-Nb2O5](#)

Nb2O5 [crystal structure, lattice parameters of R-Nb2O5](#)

Nb2O5 [crystal structure, lattice parameters, density of B-Nb2O5](#)

Nb2O5 [crystal structure, lattice parameters, density of H-Nb2O5](#)

Nb2O5 [crystal structure, lattice parameters, density of N-Nb2O5](#)

Nb2O5 [crystal structure, lattice parameters, density of T-Nb2O5](#)

Nb2O5 [crystal structure, lattice parameters, density of TT-Nb2O5](#)

Nb2O5 [defect and transport properties](#)

Nb2O5 [dielectric constants](#)

Nb2O5 [energy gap, optical properties](#)

Nb2O5 [parameters of H-T and B-T transition](#)

Nb2O5 [phase diagram, modifications](#)

Nb2O5 [wavenumbers of lattice modes](#)

NbO2 [band structure, optical spectra](#)

NbO2 [crystal structure, lattice parameters, density, low-temperature modification](#)

NbO2 [crystal structure, thermal expansion, high-temperature modification](#)

NbO2 [elastic moduli, Debye temperature](#)

NbO2 [magnetic properties](#)

NbO2 [phonon wavenumbers](#)

NbO2 [transport parameters](#)

NbO2 [transport properties and stoichiometry](#)

Nb2O(5-x) [phase diagram, modifications](#)

Nb12O29 [phase diagram, modifications](#)

Nb22O54 [phase diagram, modifications](#)

Nb25O62 [phase diagram, modifications](#)

Nb32O79 [phase diagram, modifications](#)

Nb-O -V

Nb(x)V(1-x)O2 [conductivity](#)

Nb-S

NbS3 [crystal structure, physical properties](#)

NbS3 [crystal structure, chemical bond, general characterization](#)

Nb-Se

NbSe3 [crystal structure, chemical bond, general characterization](#)

Nd-O

Nd2O3 [crystal structure, physical properties](#)

Nd-S

Nd2S3 [crystal structure, physical properties](#)

Nd-Se

Nd2Se3 [crystal structure, physical properties](#)

Nd-Te

Nd2Te3 [crystal structure, physical properties](#)

Ni-O

NiO [band structure](#)

NiO [carrier mobility, pure NiO](#)

NiO [crystal structure](#)

NiO [defects in pure NiO, conductivity](#)

NiO [dielectric relaxation in Li doped NiO](#)

NiO [elastic moduli, heat capacity, Debye temperature](#)

NiO [lattice parameter, thermal expansion](#)

NiO [magnetic properties](#)

NiO [optical properties, dielectric constants](#)

NiO [phonon dispersion, phonon wavenumbers](#)

NiO [transport properties in Li doped NiO](#)

NiO2 [crystal structure](#)

Ni2O3 [crystal structure](#)

Ni3O4 [crystal structure](#)

Ni-P

NiP2 [physical properties](#)

NiP2 [crystallographic data for the PdP2-type compounds with square-planar cation coordination: lattice parameters](#)

NiP2 [crystallographic data of transition-element dipnictides with octahedrally coordinated cations: space group, lattice parameters, density](#)

NiP2 [interatomic distances and bond angles for the PdP2-type compounds](#)

Ni-S

Ni(1-x)S [crystal structure, physical properties](#)

Ni(1-x)S [crystal structure, chemical bond, general characterization](#)

NiS2 [crystal structure, physical properties](#)

NiS₂ [crystal structure, chemical bond, general characterization](#)

Ni-Sb

NiSb₂ [physical properties](#)

NiSb₂ [crystallographic data of transition-element dipnictides with octahedrally coordinated cations: space group, lattice parameters, density](#)

NiSb₂ [interatomic distances in marcasite- and loellingite-type transition element dipnictides](#)

O -Pd

PdO [crystal structure, lattice parameters, thermal expansion](#)

PdO [energy gaps](#)

PdO [enthalpy, entropy, dissociation pressure](#)

PdO [magnetic properties](#)

PdO [optical properties, dielectric constant](#)

PdO [transport properties](#)

O -Re-V

Re(x)V(1-x)O₂ [conductivity](#)

O -Sm

Sm₂O₃ [crystal structure, physical properties](#)

O -Ta

Ta₂O₅ [crystal structure and related parameters of H-Ta₂O₅](#)

Ta₂O₅ [crystal structure and related parameters of L-Ta₂O₅](#)

Ta₂O₅ [energy gaps](#)

Ta₂O₅ [peaks in optical spectra](#)

Ta₂O₅ [refractive index, dielectric constants](#)

Ta₂O₅ [transport properties and non-stoichiometry](#)

O -Tb

Tb₂O₃ [crystal structure, physical properties](#)

O -Ti

Ti(n)O(2n-1) (n>=3) [crystal structure of high-temperature phase \(T > T\(tr\)\) of Ti₃O₅](#)

Ti(n)O(2n-1) (n>=3) [crystal structure of low-temperature phase \(T < T\(tr\)\) of Ti₃O₅](#)

Ti(n)O(2n-1) (n>=3) [crystal structure of Ti₄O₇](#)

Ti(n)O(2n-1) (n>=3) [crystal structure of Ti₅O₉](#)

Ti(n)O(2n-1) (n>=3) [crystal structure of Ti₆O₁₁, Ti₇O₁₃, Ti₈O₁₅, Ti₉O₁₇](#)

Ti(n)O(2n-1) (n>=3) [EPR spectra and defects in Ti₃O₅, Ti₄O₇](#)

Ti(n)O(2n-1) (n>=3) [magnetic properties](#)

Ti(n)O(2n-1) (n>=3) [optical properties](#)

Ti(n)O(2n-1) (n>=3) [physical properties of V-doped Ti₄O₇](#)

Ti(n)O(2n-1) (n>=3) [transport properties](#)

Ti(x)O(y) [general characterization](#)

Ti₂O₃ [band structure, energy gap](#)

Ti₂O₃ [crystal structure, lattice parameters, density](#)

Ti₂O₃ [dielectric constants](#)

Ti₂O₃ [elastic moduli, Debye temperature](#)

Ti2O3	magnetic properties
Ti2O3	optical spectra
Ti2O3	properties of doped Ti2O3
Ti2O3	transport properties
Ti2O3	wavenumbers of lattice modes
Ti2O3	character of outer d-electrons: bandwidth, electrostatic correlation energies, crystallographic phase changes and semiconductor-metal transitions
TiO2	absorption spectra, energy-loss spectra in rutile
TiO2	band structure, band structure energies in rutile
TiO2	crystal structure, lattice parameters and related parameters of anatase
TiO2	crystal structure, lattice parameters and related parameters of brookite
TiO2	crystal structure, lattice parameters and related parameters of rutile
TiO2	defects in non-stoichiometric TiO(2-x) (rutile)
TiO2	dielectric constants in rutile
TiO2	elastic moduli, Debye temperature in rutile
TiO2	energy gap, further interband transitions in rutile
TiO2	ESR parameters of native defects in pure n-type TiO(2-x) (rutile)
TiO2	exciton binding energy in rutile
TiO2	native defects in pure n-type TiO(2-x) (rutile)
TiO2	paraelectric Curie temperature in rutile
TiO2	physical properties of anatase
TiO2	point defect thermodynamics in pure n-type TiO(2-x) (rutile)
TiO2	properties of impurity-doped rutile
TiO2	properties of vibrational and Raman modes in rutile
TiO2	thermodynamic parameters of phase transformation
TiO2	conductivity and defect distribution in non-stoichiometric TiO(2-x)
TiO2	electron mobility in non-stoichiometric TiO(2-x)
TiO2	resistivity vs. 1/T in non-stoichiometric TiO(2-x)
TiO2	transport properties in stoichiometric TiO2 (rutile)
TiO2	character of outer d-electrons: bandwidth, electrostatic correlation energies, crystallographic phase changes and semiconductor-metal transitions
Ti4O7	character of outer d-electrons: bandwidth, electrostatic correlation energies, crystallographic phase changes and semiconductor-metal transitions

O -Ti-V

Ti(x)V(1-x)O2	conductivity
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O -Tm

Tm2O3	crystal structure, physical properties
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O -V

V(n)O(2n+1) (n>=3)	crystal structure of V3O7
V(n)O(2n+1) (n>=3)	crystal structure of V4O9
V(n)O(2n+1) (n>=3)	crystal structure of V6O13
V(n)O(2n+1) (n>=3)	physical properties
V(n)O(2n-1) (n>=3)	crystal structure of V3O5
V(n)O(2n-1) (n>=3)	crystal structure of V4O7

V(n)O(2n-1) (n>=3)	crystal structure of V5O9
V(n)O(2n-1) (n>=3)	crystal structure of V6O11, V7O13, V8O15, V9O17
V(n)O(2n-1) (n>=3)	electronic and lattice properties, optical and magnetic data
V(n)O(2n-1) (n>=3)	thermal properties at T(tr)
V(n)O(2n-1) (n>=3)	transport properties
V2O3	anomalies of transformation heat in Cr and Al doped material
V2O3	characteristic peak energies in optical spectra
V2O3	crystal structure, lattice parameters of pure material, low-temperature phase
V2O3	crystal structure, lattice parameters of pure material, room-temperature phase
V2O(3+x)	magnetic phase diagram
V2O3	electronic properties
V2O3	interatomic distances and angles of pure material, room-temperature phase
V2O3	interatomic distances in pure material, low-temperature phase
V2O3	lattice parameters of Cr doped V2O3
V2O(3+x)	lattice parameters of Cr doped V2O3
V2O3	magnetic properties
V2O(3+x)	magnetic susceptibility, magnetic phase diagram
V2O3	optical properties
V2O3	phase transition data of pure material
V2O3	phonon wavenumbers, elastic moduli, Debye temperature
V2O3	properties of Cr and Al doped material (extended Cr- and Al-data)
V2O3	properties of Cr and Al doped material (interatomic distances and angles)
V2O3	transport properties, high-temperature phase, T > T(tr)
V2O3	transport properties, low-temperature phase, T < T(tr)
V2O(3+x)	transport properties, low-temperature phase, T < T(tr): resistivity
V2O3	character of outer d-electrons: bandwidth, electrostatic correlation energies, crystallographic phase changes and semiconductor-metal transitions
V2O5	band structure (cluster calculations and data)
V2O5	crystal structure, lattice parameters, density
V2O5	dielectric constants
V2O5	energy gap
V2O5	interatomic distances and angles, thermal expansion
V2O5	optical properties
V2O5	phonon wavenumbers
V2O5	transport properties for doped material
V2O(5-x)	resistivity
V2O5	transport properties, high temperature range
V2O5	transport properties, intermediate temperature range
V2O5	transport properties, low temperature range
V2O5	character of outer d-electrons: bandwidth, electrostatic correlation energies, crystallographic phase changes and semiconductor-metal transitions
VO	character of outer d-electrons: bandwidth, electrostatic correlation energies, crystallographic phase changes and semiconductor-metal transitions
VO2	coefficient of linear thermal expansion

VO ₂ , VO(2-x)	crystal structure, lattice parameters, high temperature phase
VO ₂	crystal structure, low temperature phase
VO ₂	effect of dopant ions on crystal structure
VO ₂	effective electron masses
VO ₂	electronic properties
VO ₂	Hall mobility
VO ₂	magnetic properties
VO ₂	optical properties, dielectric constants
VO ₂ , VO(2-x)	phase transition data
VO ₂	phonon wavenumbers, Debye temperature, heat capacity
VO ₂	plasmon data
VO ₂ , VO(2-x)	resistivity, conductivity, photoconductivity
VO ₂ , VO(2-x)	Seebeck coefficient
VO ₂	thermal conductivity
VO ₂	transport in doped material
VO ₂	character of outer d-electrons: bandwidth, electrostatic correlation energies, crystallographic phase changes and semiconductor-metal transitions

V -W

W(x)V ₂ O ₅	refractive index
W(x)V ₂ O ₅	Seebeck coefficient, conductivity

O -V -W

W(x)V(1-x)O ₂	conductivity, thermopower
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O -W

W(x)O(y)	general characterization
WO ₃	band structure, energy gap
WO ₃	crystal structure, general remarks
WO ₃	defects
WO ₃	magnetic properties
WO ₃	optical properties, dielectric constants
WO ₃	phonon wavenumbers, Debye temperature
WO ₃	structural and related data of alpha-WO₃
WO ₃	structural and related data of beta-WO₃
WO ₃	structural and related data of gamma-WO₃
WO ₃	structural and related data of orthorhombic WO₃
WO ₃	structural data of tetragonal WO₃
WO ₃	transport properties, general
WO ₃	transport properties, monoclinic phase
WO ₃	transport properties, reduced WO₃
WO ₃	transport properties, triclinic phase

O -Yb

Yb ₂ O ₃	crystal structure, physical properties
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Os-P

OsP2	physical properties
OsP2	crystallographic data of transition-element dipnictides with octahedrally coordinated cations: space group, lattice parameters, density
OsP2	interatomic distances in marcasite- and loellingite-type transition element dipnictides
OsP4	physical properties
OsP4	crystal structure, chemical bond of transition metal tetraphosphides
OsP4	crystallographic data for the transition-element tetraphosphides

Os-P -S

OsPS	physical properties
OsPS	crystallographic data for the arsenopyrite-type compounds: lattice parameters, space group, density

Os-P -Se

OsPSe	physical properties
OsPSe	crystallographic data for the arsenopyrite-type compounds: lattice parameters, space group, density

Os-S

OsS2	crystal structure, physical properties
OsS2	crystal structure, chemical bond, general characterization

Os-S -Sb

OsSbS	physical properties
OsSbS	crystallographic data for the arsenopyrite-type compounds: lattice parameters, space group, density
OsSb2	physical properties
OsSb2	crystallographic data of transition-element dipnictides with octahedrally coordinated cations: space group, lattice parameters, density
OsSb2	interatomic distances in marcasite- and loellingite-type transition element dipnictides

Os-Sb-Se

OsSbSe	physical properties
OsSbSe	crystallographic data for the arsenopyrite-type compounds: lattice parameters, space group, density

Os-Sb-Te

OsSb(2-x)Te(x)	physical properties
OsSbTe	physical properties
OsSbTe	crystallographic data for the arsenopyrite-type compounds: lattice parameters, space group, density

Os-Se

OsSe2	crystal structure, physical properties
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Os-Si

Os2Si3	crystal structure, chemical bond of Os(n)Si(2n-m) compounds
Os2Si3	space group, lattice parameters, density (room temperature modification)
OsSi2	coordination distances of the atoms in the orthorhombic phase
OsSi2	crystal structures of OsSi2 and other TSi2 phases
OsSi2	physical properties
OsSi2	space group, lattice parameters

Os-Te

OsTe2	crystal structure, physical properties
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P -Pd

PdP2	physical properties
PdP2	crystal structure, chemical bond of transition element dipnictides
PdP2	crystallographic data for the PdP2-type compounds with square-planar cation coordination: lattice parameters
PdP2	interatomic distances and bond angles for the PdP2-type compounds

P Pd-S

PdPS	crystal structure and related properties
PdPS	physical properties
PdPS	crystal structure, chemical bond

P -Pd-S -Se

PdPS(1-x)Se(x)	physical properties
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P -Pd-Se

PdPSe	physical properties
PdPSe	crystal structure, chemical bond

P -Pt

PtP2	physical properties
PtP2	crystallographic data of transition-element dipnictides with octahedrally coordinated cations: space group, lattice parameters, density
PtP2	interatomic distances in pyrite- and parammelsbergite-type transition element dipnictides

P -Re

ReP4	physical properties
ReP4	crystal structure, chemical bond of transition metal tetraphosphides
ReP4	crystallographic data for the transition-element tetraphosphides
ReP4	interatomic distances in transition element tetraphosphides

P -Rh

RhP2	physical properties
RhP2	crystallographic data of transition-element dipnictides with octahedrally coordinated cations: space group, lattice parameters, density
RhP2	interatomic distances for binary arsenopyrite-type phases of transition element dipnictides
RhP3	crystallographic data for semiconducting skutterudite-type compounds TX3: lattice parameters, space group, atomic positions, density
RhP3	physical data for skutterudite-type semiconductors: energy gap, resistivity, electrical conductivity, thermoelectric power, mass susceptibility

P -Rh-S

RhPS	crystallographic and physical data for pyrite-type derivatives: crystal structure, lattice parameters, energy gap, Seebeck coefficient
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P -Rh-Se

RhPSe	crystallographic and physical data for pyrite-type derivatives: crystal structure, lattice parameters, energy gap, Seebeck coefficient
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P -Ru

RuP2	physical properties
RuP2	crystallographic data of transition-element dipnictides with octahedrally coordinated cations: space group, lattice parameters, density
RuP2	interatomic distances in marcasite- and loellingite-type transition element dipnictides
RuP4	physical properties
RuP4	crystal structure, chemical bond of transition metal tetraphosphides
RuP4	crystallographic data for the transition-element tetraphosphides
RuP4	interatomic distances in transition element tetraphosphides

P -Ru-S

RuPS	physical properties
RuPS	crystallographic data for the arsenopyrite-type compounds: lattice parameters, space group, density

P -Ru-Se

RuPSe	physical properties
RuPSe	crystallographic data for the arsenopyrite-type compounds: lattice parameters, space group, density

P -Ru-Th

ThRu ₄ P ₁₂	crystal structure, chemical bond of transition element tripnictides
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P -Sm

SmP	crystal structure, physical properties
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P -Sm**P -Tc**

TcP ₄	crystallographic data for the transition-element tetraphosphides
TcP ₄	interatomic distances in transition element tetraphosphides

P -Y

YP	crystal structure, physical properties
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Pd-S

PdS	crystal structure, physical properties
PdS	crystal structure, chemical bond, general characterization
PdS ₂	crystal structure, physical properties
PdS ₂	crystal structure, chemical bond, general characterization

Pd-Sb

PdSb ₂	crystallographic data of transition-element dipnictides with octahedrally coordinated cations: space group, lattice parameters, density
PdSb ₂	interatomic distances in pyrite- and pararammelsbergite-type transition element dipnictides

Pd-Se

PdSe	crystal structure, physical properties
PdSe	crystal structure, chemical bond, general characterization
PdSe ₂	crystal structure, physical properties
PdSe ₂	crystal structure, chemical bond, general characterization

Pr-S

Pr ₂ S ₃	crystal structure, physical properties
PrS ₂	crystal structure, physical properties

Pr-Se

Pr ₂ Se ₃	crystal structure, physical properties
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Pr-Te

Pr ₂ Te ₃	crystal structure, physical properties
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Pt-S

Pt(1-x)S ₂	crystal structure, physical properties
Pt(1-x)S ₂	crystal structure, chemical bond, general characterization
PtS	crystal structure, physical properties
PtS	crystal structure, chemical bond, general characterization

Pt-Sb	
PtSb2	doping, metal substitution
PtSb2	electronic properties
PtSb2	lattice properties
PtSb2	magnetic properties
PtSb2	optical properties, dielectric constant
PtSb2	thermal conductivity
PtSb2	transport properties
PtSb2	crystallographic data of transition-element dipnictides with octahedrally coordinated cations: space group, lattice parameters, density
PtSb2	interatomic distances in pyrite- and pararammelsbergite-type transition element dipnictides
Pt-Se	
PtSe	crystal structure, chemical bond, general characterization
PtSe2	crystal structure, physical properties
PtSe2	crystal structure, chemical bond, general characterization
Rh-Sb	
RhSb2	crystal structure, physical properties
Re-S	
ReS	general characterization, crystal structure
ReS2	crystal structure, physical properties
Re-Se	
ReSe	general characterization, crystal structure
ReSe	general characterization, crystal structure
ReSe2	crystal structure, physical properties
Re-Si	
ReSi2	crystal structures of ReSi2 and other TSi2 phases
ReSi2	crystallographic data
ReSi2	physical properties
Re-Si-Ti	
Re(1-x)Ti(x)Si2	physical properties
Re-Te	
ReTe2	crystal structure, physical properties
Rh-S	
Rh2/3S2	crystal structure, physical properties
Rh2S3	crystal structure, physical properties
Rh2S3	crystal structure, chemical bond, general characterization
RhS3	crystal structure, physical properties
Rh-S -Sb	
RhSbS	crystallographic and physical data for pyrite-type derivatives: crystal structure, lattice parameters, energy gap, Seebeck coefficient
RhSb2	crystal structure, chemical bond of transition element dipnictides
RhSb2	crystallographic data of transition-element dipnictides with octahedrally coordinated cations: space group, lattice parameters, density
RhSb2	interatomic distances for binary arsenopyrite-type phases of transition element dipnictides

RhSb ₃	crystal structure, chemical bond of transition element tripnictides
RhSb ₃	crystallographic data for semiconducting skutterudite-type compounds TX₃: lattice parameters, space group, atomic positions, density
RhSb ₃	physical data for skutterudite-type semiconductors: energy gap, resistivity, electrical conductivity, thermoelectric power, mass susceptibility

Rh-Sb-Se

RhSbSe	crystallographic and physical data for pyrite-type derivatives: crystal structure, lattice parameters, energy gap, Seebeck coefficient
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Rh-Sb-Te

RhSbTe	crystallographic and physical data for pyrite-type derivatives: crystal structure, lattice parameters, energy gap, Seebeck coefficient
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Rh-Se

Rh ₂ Se ₃	crystal structure, chemical bond, general characterization
RhSe(2-x)	crystal structure, chemical bond, general characterization
RhSe ₂	crystal structure, physical properties
RhSe ₃	crystal structure, physical properties

Ru-S

RuS ₂	crystal structure, physical properties
RuS ₂	crystal structure, chemical bond, general characterization

Ru-S -Sb

RuSbS	physical properties
RuSbS	crystallographic data for the arsenopyrite-type compounds: lattice parameters, space group, density
RuSb ₂	physical properties
RuSb ₂	crystallographic data of transition-element dipnictides with octahedrally coordinated cations: space group, lattice parameters, density
RuSb ₂	interatomic distances in marcasite- and loellingite-type transition element dipnictides

Ru-Sb-Se

RuSbSe	physical properties
RuSbSe	crystallographic data for the arsenopyrite-type compounds: lattice parameters, space group, density

Ru-Sb-Te

RuSbTe	physical properties
RuSbTe	crystallographic data for the arsenopyrite-type compounds: lattice parameters, space group, density

Ru-Se

RuSe ₂	crystal structure, physical properties
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Ru-Si

Ru ₂ Si ₃	crystal structure, chemical bond of Ru(n)Si(2n-m) compounds
Ru ₂ Si ₃	physical properties
Ru ₂ Si ₃	space group, lattice parameters, density (room temperature modification)

Ru-Sn

Ru ₂ Sn ₃	crystal structure, chemical bond of Ru(n)Sn(2n-m) compounds
Ru ₂ Sn ₃	physical properties
Ru ₂ Sn ₃	space group, lattice parameters

Ru-Te

RuTe ₂	crystal structure, physical properties
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Se-Sm

SmS(1-x)Se(x)	crystal structure, physical properties
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S -Sm

Sm ₂ S ₃	crystal structure, physical properties
Sm ₃ S ₄	crystal structure, physical properties
SmS	crystal structure, physical properties

S -Ta

Ta ₂ S ₂	crystal structure, physical properties
Ta ₂ S ₂	crystal structure, chemical bond, general characterization
Ta ₂ S ₃	crystal structure, physical properties

S -Tb

Tb ₂ S ₃	crystal structure, physical properties
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S -Tc

TcS	general characterization, crystal structure
TcS ₂	crystal structure, physical properties

S -Ti

Ti _(1+x) S ₂	crystal structure, physical properties
TiS _(3-x)	crystal structure, physical properties
TiS ₂	crystal structure, chemical bond, general characterization

S -Tm

Tm ₂ S ₃	crystal structure
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S -V

VS ₄	crystal structure, chemical bond, general characterization
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S -W

WS ₂	crystal structure, physical properties
WS ₂	crystal structure, chemical bond, general characterization

S -Yb

Yb ₂ S ₃	crystal structure, physical properties
YbS	crystal structure, physical properties

S -Zr

Zr ₂ S ₃	crystal structure, physical properties
Zr ₂ S ₃	crystal structure, chemical bond, general characterization
ZrS _(3-x)	crystal structure, physical properties
ZrS ₂	crystal structure, physical properties
ZrS ₂	crystal structure, chemical bond, general characterization

Se-Ti

TiSe ₂	crystal structure, chemical bond, general characterization, band structure
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Se-Sm

Sm ₂ Se ₃	crystal structure, physical properties
Sm ₃ Se ₄	crystal structure, physical properties
SmSe	crystal structure, physical properties

Se-Ta

TaSe ₂	crystal structure, chemical bond, general characterization
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Se-Tc

TcSe [general characterization, crystal structure](#)

TcSe₂ [crystal structure, physical properties](#)

Sm-Te

SmTe [crystal structure, physical properties](#)

Se-Te-Tm

TmSe(1-x)Te(x) [crystal structure, physical properties](#)

Se-Ti

Ti(1+x)Se₂ [crystal structure, physical properties](#)

Se-Tm

Tm₂Se₃ [crystal structure, physical properties](#)

Se-W

WSe₂ [crystal structure, physical properties](#)

Se-Yb

YbSe [crystal structure, physical properties](#)

Se-Zr

Zr(1+x)Se₂ [crystal structure, physical properties](#)

Zr₂Se₃ [crystal structure, physical properties](#)

ZrSe₃ [crystal structure, physical properties](#)

ZrSe₃ [crystal structure, chemical bond, general characterization](#)

Sm-Te

Sm₃Te₄ [crystal structure](#)

Ta

Ta [heat capacity of compounds with group Vb elements](#)

Tc-Te

TcTe [general characterization, crystal structure](#)

TcTe₂ [crystal structure, physical properties](#)

Te-Ti

TiTe₂ [crystal structure, chemical bond, general characterization, band structure](#)

Te-Tm

Tm₂Te₃ [crystal structure](#)

TmTe [crystal structure, physical properties](#)

Te-Yb

YbTe [crystal structure, physical properties](#)

V

V [heat capacity of compounds with group Vb elements](#)

Se-W

WSe₂ [crystal structure, chemical bond, general characterization](#)

Te-W

WTe₂ [crystal structure, physical properties](#)