

Landolt-Börnstein Substance/Property Index

III/41: Semiconductors

(revised and extended contents of the volumes III/17 and III/22)

Subvolume III/41C: Non-tetrahedrally Bonded Elements and Binary Compounds I

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List of substances, sorted by element system

Elements

[Arsenic \(As\)](#)
[Boron \(B\)](#)
[Bismuth \(Bi\)](#)
[Phosphor \(P\)](#)
[Sulfur \(S\)](#)
[Antimony \(Sb\)](#)
[Selenium \(Se\)](#)
[Tellurium \(Te\)](#)

Solid solutions between elements

Bi-Sb [Bi_{1-x}Sb_x](#)
Ge-Te [Ge_{1-x}Te_x](#)
Se-Te [Se_xTe_{1-x}](#)

Binary compounds

Ag–O	AgO	Br–Hg	HgBr₂	In₄₀Se₆₀
	Ag₂O	Br–Pb	PbBr₂	In₅₀Se₅₀
	Ag₂O₃	Br–Tl	TlBr	In₆₀Se₄₀
	Ag₃O₄	Ca–Pb	Ca₂Pb	In–Te
	Ag₄O₃	Ca–Si	Ca₂Si	In₇Te₅
Ag–S	Ag₇O₁₁	Ca–Sn	Ca₂Sn	In₄Te₄
	Ag₂S	Cd–Cl	CdCl₂	In₄Te₃
Ag–Se	AgSe	Cd–I	CdI₂	K–Sb
	AgSe₂	Cd–P	CdP₂	K₃Sb
	Ag₂Se		CdP₄	Li–Sb
	Ag₃Se₂		Cd₃P₂	Li₃Sb
	Ag_{13.5}Se₄		Cd₆P₇	Mg–P
Ag–Te	Ag₁₆Se₇		Cd₇P₁₀	Mg₃P₂
	AgTe	Cd–Sb	CdSb	Mg–Pb
	Ag_{1.9}Te		Cd₃Sb₂	Mg₂Si
	Ag₂Te		Cd₄Sb₃	Mg₂Sn
	Ag₅Te₃	Cl–Hg	HgCl₂	NaSb
As–Cd	CdAs	Cl–Pb	PbCl₂	Na₃Sb
	CdAs₂	Cl–Tl	TlCl	O–Pb
	CdAs₄	Cs–Sb	CsSb	PbO
	Cd₃As₂		Cs₃Sb	PbO₂
	GeAs	Cu–O	CuO	O–Sb
As–Ge	GeAs₂		Cu₂O	Sb₂O₃
	AsI₃	Cu–S	Cu₂S	Sb₂O₄
As–Mg	MgAs₄	Cu–Se	Cu₂Se	O–Sn
	Mg₃As₂	Cu–Te	Cu₂Te	SnO₂
As–O	As₂O₃	F–Pb	PbF₂	P–Si
As–S	As₂S₃	F–Tl	TlF	SiP
	As₄S₄ (realgar)	Ga–S	GaS	SiP₂
As–Se	As₂Se₃		Ga₂S	P–Zn
As–Si	SiAs		Ga₄S₅	ZnP₂
	SiAs₂	Ga–Se	GaSe	ZnP₄
	As₂Te₃		Ga₂Se	Zn₃P₂
As–Te	ZnAs	Ga–Te	GaTe	Zn₃P₁₀
As–Zn	ZnAs₂		GaTe₃	Zn₇P₁₀
	Zn₃As₂		Ga₂Te₅	Pb–S
	CsAu	Ge–Mg	Ga₃Te₄	PbS
	KAu₂	Ge–O	GeO₂	Pb–Se
Au–K	KAu₅	Ge–P	GeP	PbSe
	K₇Au₃	Ge–S	GeS	Pb–Te
Au–Na	NaAu₂		GeS₂	PbTe
Au–Rb	Rb₂Au₃	Ge–Se	GeSe	Rb–Sb
	RbAu		GeSe₂	Rb₃Sb
	RbAu₅	Ge–Sr	SrGe₂	Rb₂Sb₃
	Rb₃Au₇	Ge–Te	GeTe	Sb₂Te₃
	AuTe₂	Hg–I	HgI₂	Sb–Zn
Au–Te	Au₂Te₃	I–Pb	PbI₂	ZnSb
	BaGe₂	I–Sb	SbI₃	Zn₃Sb₂
Ba–Ge	BaSi₂	I–Tl	TlI	Zn₄Sb₃
Ba–Si	Cs₃Bi	In–S	InS	Se–Si
Bi–Cs	BiI₃		In₃S₄	SiSe₂
Bi–I	K₃Bi		In₅S₄	Se–Sn
Bi–K	Li₃Bi		In₆S₇	SnSe
Bi–Li	Na₃Bi	In–Se	InSe	SnSe₂
Bi–Na	Bi₂O₃		In₇Se	Se–Tl
Bi–O	Rb₃Bi		In₄Se₃	TlSe
Bi–Rb	Bi₂S₃		In₅Se₆	Tl₂Se
Bi–S	Bi₂Se₃		In₅Se₇	Tl₂Se₃
Bi–Se	Bi₂Te₃		In₆Se₇	Si–Te
Bi–Te	CdBr₂			SiTe₂
Br–Cd				Si₂Te₃

Solid solutions between binary compounds

As–Cd–P	<u>(CdP₄,CdAs₂)</u>	Ga–In–Se	<u>Ga_xIn_{1-x}Se</u>
	<u>(CdP₄,CdP₂,CdAs₂)</u>	Ga–In–Te	<u>Ga_xIn_{1-x}Te</u>
	<u>Cd₃As_{2-x}P_x</u>	Ga–S–Se	<u>GaS_xSe_{1-x}</u>
	<u>CdP_{2-x}As_x</u>	Ga–S–Te	<u>GaS_{1-x}Te_x</u>
	<u>Cd(P_{1-x}As_x)₄</u>	Ga–Se–Te	<u>GaSe_xTe_{1-x}</u>
As–Cd–Zn	<u>Cd_{3-x}Zn_xAs₂</u>	Ge–Mg–Sn	<u>Mg₂Ge_xSn_{1-x}</u>
	<u>Zn_xCd_{1-x}As₂</u>	Ge–O–Si	<u>Si_xGe_{1-x}O₂</u>
As–P–Zn	<u>Zn(P_{1-y}As_y)₂</u>	Ge–S–Se	<u>GeSe_xS_{1-x}</u>
	<u>Zn₃As_{2-x}P_x</u>	In–S–Se	<u>In_xS_{1-x}Se</u>
	<u>Zn₃(P_{1-x}As_x)₂</u>	In–Se–Tl	<u>Tl_{2-x}In_xSe₂</u>
As–S–Se	<u>As₂S_xSe_{3-x}</u>		<u>TlIn_{1-x}Tl_xSe₂</u>
Bi–S–Te	<u>Bi₂Te_{3-x}S_x</u>	In–Te–Tl	<u>Tl_xIn_{1-x}Te</u>
Bi–Sb–Se	<u>(Bi_{1-x}Sb_x)₂Se₃</u>	Mg–Pb–Sn	<u>Mg₂Sn_xPb_{1-x}</u>
Bi–Sb–Te	<u>(Bi_{1-x}Sb_x)₂Te₃</u>	Mg–Si–Sn	<u>Mg₂Si_xSn_{1-x}</u>
Bi–Se–Te	<u>Bi₂(Se_xTe_{1-x})₃</u>	Pb–S–Se	<u>PbS_xSe_{1-x}</u>
Br–Cl–Tl	<u>TlCl_xBr_{1-x}</u>	Pb–Se–Sn	<u>Pb_{1-x}Sn_xSe</u>
Br–I–Tl	<u>TlBr_xI_{1-x}</u>	Pb–Se–Te	<u>PbSe_{1-x}Te_x</u>
Cd–P–Zn	<u>(CdP₄,ZnP₂,CdP₂)</u>	Pb–Sn–Te	<u>Pb_{1-x}Sn_xTe</u>
	<u>Cd_{3-x}Zn_xP₂</u>	S–Se–Sn	<u>SnS_{1-x}Se_x</u>
	<u>Zn_{1-x}Cd_xP₂</u>		<u>SnS_xSe_{2-x}</u>
Cd–Sb–Zn	<u>(Zn_xCd_{1-x})₄Sb₃</u>	S–Se–Tl	<u>TlS_{1-x}Se_x</u>
	<u>Zn_xCd_{1-x}Sb</u>	Sb–Se–Te	<u>Sb₂Te_{3-x}Se_x</u>
Cl–I–Tl	<u>TlCl_xI_{1-x}</u>		
As–Cd–P–Zn	<u>(Cd₃As₂)_{1-x}(Zn₃P₂)_x</u>	Bi–Sb–Se–Te	<u>(Sb_xBi_{1-x})₂(Se_yTe_{1-y})₃</u>
	<u>(CdP₄,ZnAs₂)</u>	Ga–In–S–Tl	<u>TlGa_xIn_{1-x}S₂</u>
	<u>(CdP₄,ZnAs₂,CdAs₂)</u>	Ga–In–Se–Tl	<u>TlGa_{1-x}In_xSe₂</u>
	<u>(CdP₄,ZnP₂,CdAs₂)</u>	Ga–In–Te–Tl	<u>TlGa_{1-x}In_xTe₂</u>
	<u>(CdP₄,ZnP₂,CdAs₂,ZnAs₂)</u>	Ga–S–Se–Tl	<u>TlGa(S_xSe_{1-x})₂</u>
	<u>(CdP₄,ZnP₂,ZnAs₂)</u>	In–S–Se–Tl	<u>TlIn(S_xSe_{1-x})₂</u>
	<u>(CdP₄,ZnP₂,CdP₂,CdAs₂)</u>	In–S–Te–Tl	<u>TlIn(S_xTe_{1-x})₂</u>
	<u>(Zn_{1-x}Cd_x)₃(P_{1-y}As_y)₂</u>		
	<u>Zn_{1-x}Cd_x(P_{1-y}As_y)₂</u>		
	<u>Zn_{1-x}Cd_xAs_{2x}P_{4x}</u>		

Ternary compounds with two elements of the same group of the periodic system

Ag–Au–Te	<u>AgAuTe₄</u>	Bi–Se–Te	<u>Bi₂ Te₂ Se</u>	In–S–Tl	<u>TlInS₂</u>
	<u>Ag₃ AuTe₂</u>		<u>Bi₂ TeSe₂</u>	In–Se–Tl	<u>TlInSe₂</u>
Ag–Cu–S	<u>AgCuS</u>	Cs–K–Sb	<u>K₂ CsSb</u>	In–Te–Tl	<u>TlInTe₂</u>
	<u>Ag₃ CuS₂</u>	Cs–Na–Sb	<u>Na₂ CsSb</u>	K–Na–Sb	<u>K₂ NaSb</u>
	<u>Ag₆ Cu₄ S₅</u>	Cs–Rb–Sb	<u>Rb₂ CsSb</u>		<u>Na₂ KSb</u>
Ag–Cu–Se	<u>AgCuSe</u>	Ga–S–Tl	<u>TlGaS₂</u>	K–Rb–Sb	<u>K₂ RbSb</u>
Al–S–Tl	<u>TlAlS₂</u>	Ga–Se–Tl	<u>TlGaSe₂</u>	Na–Rb–Sb	<u>Na₂ RbSb</u>
Al–Se–Tl	<u>TlAlSe₂</u>	Ga–Te–Tl	<u>TlGaTe₂</u>	Pb–S–Sn	<u>PbSnS₃</u>
Au–Cu–Te	<u>CuAuTe₄</u>	Ge–Pb–S	<u>PbGeS₃</u>	Sb–Se–Te	<u>Sb₂ Te₂ Se</u>
Bi–O–Te	<u>Bi₂ TeO₅</u>	Ge–S–Sn	<u>SnGeS₃</u>		<u>Sb₂ TeSe₂</u>
Bi–S–Te	<u>Bi₂ Te₂ S</u>				

Silver oxides:	AgAuTe ₄	crystal structure, lattice parameters
	Ag ₃ AuTe ₂	crystal structure, lattice parameters
	AgCuS	crystal structure, lattice parameters
	Ag ₃ CuS ₂	crystal structure, lattice parameters
	Ag ₆ Cu ₄ S ₅	crystal structure, lattice parameters
	AgCuSe	crystal structure, lattice parameters
	Ag(x)O(y)	crystal structure, lattice parameters
	AgO	physical properties
	Ag ₂ O	energy gap, effective masses
		phonon frequencies
Silver sulfide:		transport and optical properties
		further properties
	Ag ₂ S	crystal structure
		band structure, effective masses, alpha-modification
		lattice and further properties, alpha-modification
		transport properties, alpha-modification
		magnetic properties, alpha-modification
		energy gap, effective masses, beta-modification
		transport and further properties, b- and g-modification
Silver selenides:	Ag(x)Se(y)	crystal structure, lattice parameters
	Ag ₂ Se	energy gap, effective masses
		transport properties
Silver tellurides:		optical and further properties
	Ag(x)Te(y)	crystal structure, lattice parameters
	Ag ₂ Te	physical properties, alpha-Ag₂Te
		physical properties, beta- and gamma-Ag₂Te

Arsenic:	As	structure, chemical bond
		sound velocities, elastic constants
		compressibility, bulk and Young's modulus, Grüneisen parameter
		carrier concentration, electrical conductivity and mobilities

		magnetoresistance Seebeck and Peltier coefficients, magneto-thermoelectric power superconducting transition temperature optical spectra optical constants, dielectric constant thermal conductivity magnetic susceptibility, electron spin resonance band structure, general Debye temperature, heat capacity, density, melting point energy gap and band overlap energy intervalence band and Fermi energies interband transition and spin splitting energies effective masses, g-factor impurities and defect states lattice parameters, thermal expansion, other structural parameters data on lattice vibrations
Arsenic triiodide:	AsI₃	crystal structure, chemical bond energy gap crystal structure, chemical bond, thermal expansion density, melting point phonon properties optical properties, photoconductivity heat and entropy change of fusion
Arsenic oxide:	As₂O₃	magnetic properties crystal structure, chemical bond, lattice parameters physical properties
Arsenic sulfide:	As₂S₃	band structure, energy gaps interband transition energies, work function crystal structure, chemical bond, lattice parameters heat capacity, melting point phonon properties (general), phonon frequencies mobility, resistivity optical properties, dielectric constant photoconductivity, luminescence

Arsenic selenide:	As ₄ S ₄ (realgar)	crystal structure, chemical bond, lattice parameters physical properties
	As ₂ S(x)Se(3-x) As ₂ Se ₃	existence of solid solution band structure phonon frequencies and force constants resistivity, mobility optical properties, dielectric constant, photoluminescence energy gaps spin splitting and interband transition energies peaks and shoulders in the epsilon₂ spectra core level energies impurities and defects crystal structure, chemical bond, lattice parameters heat capacity, melting point phonon properties, general
Arsenic telluride:	As ₂ Te ₃	crystal structure, chemical bond, lattice parameters physical properties
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Au tellurides:	AuTe ₂	crystal structure, lattice parameters
	Au ₂ Te ₃	crystal structure, lattice parameters
<hr/>		
Boron:	B	general characterization electronic properties of icosahedral B₁₂ clusters sound attenuation, phonon mean free path, beta-rhombohedral boron internal friction, thermal conductivity, amorphous boron density, heat capacity, amorphous boron magnetic susceptibility, amorphous boron values of charge density associated with various bonds, alpha-rhombohedral boron energy gap, alpha-rhombohedral boron band structure calculations, alpha-rhombohedral boron energy levels for some symmetry points, alpha-rhombohedral boron transition energies, effective mass and related electronic parameters, alpha-rhombohedral boron

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BaGe₂

[crystal structure, physical properties](#)

BaSi₂

[crystal structure, physical properties](#)

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Bismuth:

Bi

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Bismuth triiodide: **BiI₃**

Bismuth oxide: **Bi₂O₃**

Bismuth sulfide:

Bi₂S₃

[thermal conductivity](#)
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Bi(1-x)Sb(x)

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(Bi(1-x)Sb(x))₂Se₃

[physical properties](#)

(Bi(1-x)Sb(x))₂Te₃

[physical properties](#)

(Bi(x)Sb(1-x))₂(Se(y)Te(1-y))₃

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Bismuth selenide:

Bi₂Se₃

[band structure](#)
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Bismuth telluride:

**Bi₂(Se(x)Te(1-x))₃
Bi₂Te₃**

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**Bi₂TeO₅
Bi₂TeSe₂**

Bi₂Te₂Se	crystal structure, chemical bond, lattice parameters
Bi₂Te₂S	crystal structure, chemical bond, lattice parameters
Bi₂Te(3-x)S(x)	physical properties

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Cadmium arsenides:	Cd(x)As(y)	general tables structural data of the Cd-As system
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	CdAs₄	crystal structure, physical properties
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		Debye temperature, heat capacity, density, melting point
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		carrier concentration, resistivity, carrier mobility
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		parameters of vaporization, heats of dissociation, formation, sublimation, fusion near gap valence band structure, energy gap entropies, enthalpies, free energy thin and amorphous films some data on technical applications interband and splitting band energies effective masses Fermi surfaces, Fermi energy g-factor, further band parameters impurities and defects crystal structure and chemical bond, lattice parameters phase transitions
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Cadmium dibromide:	CdBr₂	(Cd₃As₂(1-x)(Zn₃P₂)(x) physical properties crystal structure, chemical bond interband transition energies lattice parameters and further lattice properties
Cadmium dichloride:	CdCl₂	optical properties, dielectric constant crystal structure, chemical bond interband transition energies lattice parameters and further lattice properties
Cadmium diiodide:	CdI₂	optical properties, dielectric constant crystal structure, chemical bond band structure, energy gap interband transition energies, further band parameters lattice parameters and related properties phonon wavenumbers, sound velocity, elastic moduli
Cadmium phosphides:	Cd(x)P(y) CdP₂	optical properties, dielectric constants general tables structural data of the Cd-P system band structure, energy gap, beta-modification

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CdP4	general tables crystal structure and chemical bond of CdP4
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	photoluminescence, photoconductivity, laser radiation
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	parameters of vaporization, condensation, dissociation, formation and decomposition
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	carrier concentration, resistivity, carrier mobility
	crystal structure, chemical bond
Cd6P7	lattice constant, energy gap, electron concentration, electron mobility, Seebeck coefficient, melting point, density
Cd7P10	lattice parameters, crystal structure, chemical bond, density, melting point
CdP(2-x)As(x)	physical properties

Cadmium antimonides:	CdP(4-x)As(x)	solid solutions physical properties
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		interband energies, effective masses, Fermi surface
		crystal structure and chemical bond, lattice parameters
		Debye temperature, density, melting point
		resistivity, carrier mobilities, thermal conductivity
		thermoelectric power, piezoresistance
		refractive index, dielectric constant
		crystal structure, chemical bond
	Cd4Sb3	lattice properties, density
		electronic properties and transport parameters of beta-Cd4Sb3
		further parameters of beta-Cd4Sb3
	Cd(3-x)Zn(x)As2	band structure, transition
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		special data on Cd(2.8)Zn(0.2)As2
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	CuO	crystal structure, lattice parameters electronic properties lattice properties transport and optical properties magnetic properties, heat capacity, density
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Copper sulfides:	Cu ₂ S, Cu(2-x)S	crystal structure, lattice parameters energy gap, effective masses compressibility and thermal expansion transport properties optical and further properties
Copper selenides:	Cu ₂ Se, Cu(2-x)Se	crystal structure, lattice parameters electronic and transport properties optical and further properties
Copper tellurides:	Cu ₂ Te, Cu(2-x)Te	crystal structure, lattice parameters physical properties

Gallium sulfides:	Ga(x)In(1-x)Se	direct exciton gap lattice properties, phase diagram electrical conductivity, absorption coefficient
	Ga(x)In(1-x)Te	energy gap, effective masses lattice properties mobilities, electrical and thermal conductivity
	GaS	band structure, direct energy gap electrical and thermal conductivity carrier mobilities, relaxation time, diffusion length electron trapping levels thermoelectric power optical properties dielectric constants, second order susceptibility core level energies, photoelectric threshold Schottky barrier heights magnetic properties heat of formation, entropy, vapor pressure direct exciton transition energies, exciton binding energy indirect energy gap and exciton energies interband transition energies, effective masses crystal structure, lattice parameters, thermal expansion Debye temperature, heat capacity, density, hardness, melting point phonon dispersion and wavenumbers elastic moduli compressibilities, Grüneisen parameters
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	Ga₄S₅	crystal structure
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Gallium selenides:

GaS(1-x)Te(x)

GaSe

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Gallium tellurides:	GaTe	band structure, energy gap
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	Ga₂Te₅	crystal structure, lattice parameters, density
	Ga₃Te₄	crystal structure, lattice parameters

GeAs

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GeAs₂

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Mercury dibromide: HgBr₂

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Mercury dichloride: HgCl₂

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Indium sulfides:	InS	band structure, energy gap	
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Indium selenides:	InSe	band structure	
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Indium tellurides:

In₂Se
In₄Se₃
In₄Se₃
In₅Se₆
In₅Se₇
In₆Se₇
In₄₀Se₆₀
In₅₀Se₅₀
In₆₀Se₄₀
InTe

	electrical and thermal conductivity
	carrier mobilities, diffusion
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KAu2	crystal structure, lattice parameters
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K3Bi	crystal structure, chemical bond
K2CsSb	crystal structure, lattice parameter
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K2NaSb	crystal structure
K2RbSb	crystal structure, physical properties
KSb	crystal structure, lattice parameters
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Li3Bi	crystal structure, chemical bond
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Magnesium arsenide: $\text{Mg}(x)\text{As}(y)$

MgAs_4

Mg_3As_2

Magnesium germanide: Mg_2Ge

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$\text{Mg}_2\text{Ge}(x)\text{Sn}(1-x)$

Magnesium phosphides: $\text{Mg}(x)\text{P}(y)$

MgP_4

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$\text{Mg}_2\text{Sn}(x)\text{Pb}(1-x)$

Magnesium silicide: Mg_2Si

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$\text{Mg}_2\text{Si}(x)\text{Sn}(1-x)$

Magnesium stannide: **Mg₂Sn**

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Na₃Bi

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Na₂CsSb

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Na₂KSb

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Na₂RbSb

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Phosphorus:

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Lead dibromide: **PbBr₂**

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Lead dichloride: **PbCl₂**

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Lead difluoride:	PbF₂	density, melting point
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		crystal structure, lattice parameters, thermal expansion, phase transitions
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Lead diiodide:	PbI₂	PbGeS₃
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Lead oxides:	PbO	Grüneisen parameters, effective charge, force constants
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Lead oxides:	PbO	crystal structure, lattice parameters, thermal expansion
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		crystal structure, lattice parameters
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Lead sulfide:	PbS	energy gap
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Lead selenide:	PbSe	energy gap and band structure
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	PbSe(1-x)Te(x)	band parameters, deformation potentials
	PbSnS3	impurities and defects
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	Pb(1-x)Sn(x)Se	general characterization, energy gap, effective masses
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Lead telluride:	PbTe	Debye temperature, heat capacities, density, melting point
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Rb₃Au₇	crystal structure, lattice parameters
Rb₃Bi	crystal structure, chemical bond physical properties
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		crystal structure, chemical bond
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		Debye temperature, heat capacity
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Antimony telluride:	Sb₂Te₃	

Sb₂TeSe₂	transport properties
Sb₂Te₂Se	crystal structure, chemical bond, lattice parameters
Sb₂Te(3-x)Se(x)	crystal structure, chemical bond, lattice parameters
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Non-Tetrahedrally Bonded Elements and Binary
Compounds I

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