

Ba Fe, Co, Ni

vi (K₂XO₄ u BaXO₄, tge X = S; Se; Te; 18261
Cr, Fe) 1964

Tarte P., Nit et G.,

Spectrochim. acta, 1964, 20, N3, 503-13

pp 1966

wo

Термодинамический потенциал $1597(A) 1970$
 $M = \text{Ca, Pb, Ba, Na, Li, Sr, La, Co, V,}$
 $\text{Mg, Fe, Ag, Cd, Zn, In, Al, Ga, Sn, Se, Ln}$ $\sqrt{7376}$
Нерасов Ф. В., Селднер Т. В., Харитонов Р.
Изв. Акад. Наук СССР, Сер. хим., 1970, $^{\circ}$;
№ 2, 266-71 (русск.)

Взаимные вращательные колебания и рас-
пределение элементарной плотности
в системах типа $\text{Li} \cdot \text{Li}^+ \text{Fe}$.

1070



СР, 1970, 43, № 2, 88594

BaNiO₂ (ro)

BaNiO₃

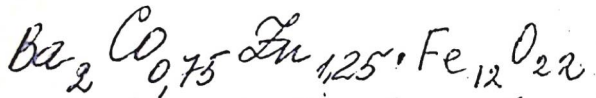
(γ_{Ni-O})

39-18-3514

1941

02156e Barium oxide-nickel oxide system. Krischner, H.
Torkar, K.; Kolbesen, B. O. (Inst. Phys. Theor. Chem., Tech.
Hochsch., Graz, Austria). *J. Solid State Chem.* 1971, 3(3),
349-57 (Eng). BaNiO₂, BaNiO₃, and phases with the compn.
BaNiO_x ($x = 2.75-2.55$) have been prep'd. X-ray structure
anal. confirmed for BaNiO₂ a planar square arrangement of O
around the Ni²⁺; in BaNiO₃ Ni has an octahedral coordination.
The Ni-O distances are very short in both compds: (2.0 and
1.89 Å). Compds. with the compn. BaNiO_x have a hexagonal
crystal lattice and a statistical occupation of various lattice sites.
Magnetic and EPR measurements show for Ni ions in BaNiO₂
and BaNiO₃ a diamagnetic ground state (¹A_{1g}); the presence of
paramagnetic Ni in BaNiO_x is discussed.

C.A. 1941. 45. 14



1971

V. A. Shchel'Kotunov, V. N. Danilov.

Izv. Akad. Nauk SSSR, Neorg.

Mater., 1971, 7(12), 2222-5.

(Перевод)
ев-ев)(Cu $\frac{1}{3}$ Fe₃O₁₂)
I

Ba_2TiO_4 ; Li_4ZrO_4 ; Li_4HfO_4 ; K_3VO_4 ; 9, 10. 1973
 Ba_2VO_4 ; K_3CrO_3 ; Ba_2CrO_4 ; Ba_2MoO_4 ; cur
 Ba_2WO_4 ; K_2MnO_4 ; K_3MnO_4 ; Li_3ReO_4 ; Ba_2CoO_4 hoch.
 $KRuO_4$; K_2RuO_4 ; K_2FeO_4 ; K_3FeO_4 ; Ba_2FeO_4 (1x 4) Vi
 Gonzalez-Vilchez F., Griffith W.P., 1973
 An. Quim., 1973, 69, N5, 617-24 (руковод.)
 Tetraoxo complexes of transition me-
 tals and their vibrational spectrum.
 II. Distribution of the potential ener-
 gy and general discussion on the
 force constant data.
 J. Mol. Liq., 1973, 79, N8, 472-51d

Ba_2CoO_4

1973

Gonzalez-Vilchez, F., et al.
An. Quim.
1973, 69, N5, 617-24.

cer.
hoef.

Vi

(cer. Ba_2TiO_4 ; III)

Ba_2FeO_4

1973

Cur. no. 1.

V. 1

Gonzalez-Vilchez, F., et al.
An. Quim., 1973, 69, N5, 617-24.

(cur. Ba_2TiO_4 ; III)

40402.9020

TE, Ch

BaNiF₆; BaNiF₄

46505 03.

1973

1960

Lulö A., Schmitz-Du Mont O.

Spektralphotometrische Untersuchung
der Systeme NiF₂/Erdalkalifluoride
sowie des Systems CaF₂/CoF₂.

"Monatsh. Chem.", 1973, 104, N 6, 1632-
1642 (нем., рез.англ.)

056 058 0 0 6 8 0075 ВИНИТИ

F: BaNi₂P₂

1999

P: 3

131:121081 Electronic and bonding properties of
ANi₂P₂ (A = Ca, Sr, Ba).

Shameem Banu, I. B.; Rajagopalan, M.;
Yousuf, Mohammed; Shenbagaraman, P

(Department of Physics, Crescent Engineering
College, Vadalur, Chennai 60 India). J. Alloys
Compd., 288(1-2), 88-95 (English) 1999 The ternary
phosphides ANi₂P₂ (A = Ca, Sr, Ba) crystallize in
the ThCr₂Si structure. The electronic band
structures and densities of states of the compds.
were studied using the tight binding linear muffin-
tin orbital method within the local d. approxn. The

C.A. 1999, 131

total energies calcd. within the at. sp approxn. were used to det. the ground state properties of these compds. calcd. equil. lattice const. and the bulk modulus were found to be in agr with the exptl. results. The pressure-vol. relations were calcd. for the compds. and compared with the available exptl. results. For BaNi_2P_2 , the pressure-vol. data are not available for comparison. There are character differences in the band structures of these compds. in the vicinity of th level. The formation of P-P bonding in CaNi_2P_2 and no such bonding in Sr and BaNi_2P_2 are discussed in terms of the band structures and charge d. p these compds.