ПРИЛОЖЕНИЕ

ТРОЙНЫЕ ИНТЕРМЕТАЛЛИДЫ R26(RuxIn1-x)17 (R = Pr, Nd, Sm, Gd, Tb, Dy, Ho, Er, Tm, Lu), Pr21Ru8.2In5 и Gd6Ru2In С БОЛЬШИМ СОДЕРЖАНИЕМ РЕДКОЗЕМЕЛЬНЫХ ЭЛЕМЕНТОВ

© 2023 г. Д.В. Седельников\*, Ж.М. Куренбаева., Е В. Мурашова

Межатомные расстояния в структурах, Å

**Nd26(RuxIn1-x)17 (x=0.47)**

Nd1 Ru11 2.9699(10)

Nd1 Ru13 2.984(2)

Nd1 In8 3.2334(9)

Nd1 In9 3.2922(6)

Nd1 Ru14 3.342(3)

Nd1 Ru14 3.3897(18)

Nd1 In7 3.4358(10)

Nd1 Nd3 3.5638(8)

Nd1 Ru13 3.5719(15)

Nd1 Nd4 3.615(3)

Nd1 Nd6 3.6254(18)

Nd1 Nd1 3.6763(8)

Nd2 Ru12 3.0405(11)

Nd2 Ru12 3.0405(11)

Nd2 In10 3.2586(15)

Nd2 In10 3.3429(9)

Nd2 Nd3 3.5411(8)

Nd2 Nd3 3.5411(8)

Nd2 Nd3 3.6630(8)

Nd2 Nd3 3.6630(8)

Nd2 Nd2 3.7330(12)

Nd2 Nd2 3.7330(12)

Nd2 Nd2 3.7393(17)

Nd2 Nd5 4.096(16)

Nd3 Ru13 2.933(3)

Nd3 Ru12 2.9757(11)

Nd3 Ru14 2.993(4)

Nd3 Ru11 3.0665(11)

Nd3 In7 3.2302(10)

Nd3 In7 3.3562(6)

Nd3 In10 3.6156(7

Nd3 Nd3 3.6445(10)

Nd3 Nd3 3.6446(10)

Nd4 Nd4 0.528(6)

Nd4 Ru14 2.611(6)

Nd4 Ru13 2.694(5)

Nd4 Ru14 3.139(6)

Nd4 Ru13 3.216(5)

Nd4 In8 3.346(3)

Nd4 In8 3.346(3)

Nd4 Nd6 3.677(5)

Nd4 Nd6B 3.718(9)

Nd4B Ru14 2.887(6)

Nd4B Ru14 2.887(6)

Nd4B In8 3.02(2)

Nd4B In8 3.02(2)

Nd4B Ru13 3.029(7)

Nd4B Ru13 3.029(7)

Nd4B Nd6B 3.614(19)

Nd4B Nd6B 3.614(19)

Nd4B Nd6 3.644(14)

Nd4B Nd6 3.644(14)

Nd5 Nd5 0.21(8)

Nd5 In10 3.12(3)

Nd5 In7 3.1790(18)

Nd5 In7 3.1791(18)

Nd5 In10 3.29(3)

Nd5 Nd6 3.431(5)

Nd5 Nd6 3.456(6)

Nd5 Nd5 3.538(3)

Nd5 Nd5 3.544(5)

Nd5 Nd6B 3.820(14)

Nd6 Nd6B 0.578(9

Nd6 Nd6 0.832(7)

Nd6 Ru14 2.444(5)

Nd6 Ru13 2.952(4)

Nd6 Ru14 3.276(5)

Nd6 In8 3.344(2)

Nd6 In8 3.344(2)

Nd6 In7 3.3943(19)

Nd6 In7 3.3943(19)

Nd6B Ru14 2.880(4)

Nd6B Ru14 2.880(4)

Nd6B In8 2.969(12)

Nd6B In8 2.969(12)

Nd6B Ru13 3.391(3)

Nd6B Ru13 3.391(3

Nd6B In7 3.609(9)

Nd6B In7 3.609(9)

In7 Ru13 3.082(3)

In8 In8 3.115(3)

Ru11 Ru12 3.150(2)

Ru12 Ru12 3.018(3)

Ru13 Ru14 0.511(3)

**Pr21Ru8.2In5**

Pr1 Ru1 2.7850(16)

Pr1 Ru4 2.9941(7)

Pr1 Ru3 3.0806(13)

Pr1 In1 3.2107(14)

Pr1 In1 3.2948(9)

Pr1 Pr1 3.5128(14)

Pr1 Pr2 3.5473(10)

Pr1 Pr1 3.6195(14)

Pr1 In1 3.6414(13)

Pr1 Pr1 3.6822(11)

Pr1 Pr1 3.6822(11)

Pr1 Pr1 3.6999(15)

Pr2 Ru2 2.9771(12)

Pr2 Ru1 2.9813(18)

Pr2 Ru3 2.9978(11)

Pr2 In2 3.2387(7)

Pr2 In1 3.4359(13)

Pr2 Ru1 3.5269(13)

Pr2 Pr2 3.6313(14)

Pr2 Pr2 3.6751(13)

Pr2 Pr5 3.6864(8)

Pr2 Pr4 3.6946(8)

Pr3 Pr3 0.396(12)

Pr3 Pr3 0.396(12)

Pr3 Pr3 0.53(2)

Pr3 In1 2.852(8)

Pr3 In1 3.151(7)

Pr3 In1 3.151(7)

Pr3 In1 3.313(14)

Pr3 Pr5 3.671(14)

Pr3 Pr5 3.787(14)

Pr4 Ru1 2.837(2)

Pr4 Ru1 2.837(2)

Pr4 Ru2 3.0511(17)

Pr4 Ru2 3.0511(17)

Pr4 Pr5 3.6691(14)

Pr4 Pr5 3.6691(14)

Pr5 Ru2 3.0808(16)

Pr5 Ru2 3.0808(16)

Pr5 Ru1 3.188(2)

Pr5 Ru1 3.188(2)

Pr5 In1 3.3920(16)

Pr5 In1 3.3920(16)

In2 Ru3 3.2067(19)

In2 Ru3 3.2067(19)

Ru3 Ru4 3.1248(19)

**Gd6Ru2In**

Gd1 Ru1 2.9738(19)

Gd1 Ru1 2.9738(19)

Gd1 Ru2 3.0227(19)

Gd1 In2 3.2119(13)

Gd1 Gd1 3.548(2)

Gd1 Gd3 3.5744(14)

Gd1 Gd3 3.5744(14)

Gd1 Gd2 3.6379(13)

Gd1 Gd2 3.6379(13)

Gd1 In1 3.6509(13)

Gd1 Gd3 3.6602(13)

Gd1 Gd3 3.6602(13)

Gd2 Ru1 2.802(3)

Gd2 Ru2 3.0094(19)

Gd2 Ru2 3.0094(19)

Gd2 In1 3.4498(13)

Gd2 Gd3 3.4527(13)

Gd2 Gd3 3.4527(13)

Gd2 Gd2 3.555(3)

Gd2 Gd2 3.609(3)

Gd2 Gd3 3.6299(13)

Gd2 Gd3 3.6299(13)

Gd3 Ru2 2.7892(19)

Gd3 In2 3.1468(13)

Gd3 Ru1 3.238(2)

Gd3 In1 3.3300(13)

Ru1 Ru1 2.478(8)

Ru2 In2 3.177(3)