

Switch to...

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DB74

Projet d'exploitation éventuelle d'une
mine et d'une usine de niobium à Oka

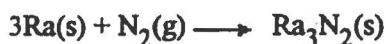
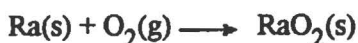
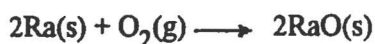
Oka

6211-08-002

Chemical reactions of the elements

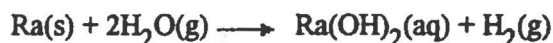
Reaction of radium with air

Radium is a silvery white metal. The surface of radium metal is covered with a thin layer of oxide that helps protect the metal from attack by air, but to a lesser extent than the corresponding layer in magnesium. I'm not sure if this reaction has been done, but once ignited, radium metal is likely to burn in air to give a mixture of white radium oxide, RaO , and radium nitride, Ra_3N_2 . The superoxide RaO_2 is also likely to form in this reaction. Radium, four places below magnesium in the periodic table is more reactive with air than magnesium.



Reaction of radium with water

Radium probably reacts very readily with water to form radium hydroxide, Ra(OH)_2 and hydrogen gas (H_2). The reaction is expected to be quicker than that of barium (immediately above radium in the periodic table).



Reaction of radium with the halogens

I'm not sure that radium has been reacted directly with the halogens, although certainly two of the expected products radium(II) chloride and radium(II) bromide are known.

Reaction of radium with acids

Reaction of radium with bases

Switch to...



Chemical reactions of the elements

Reaction of radon with air

Radon gas does not react with air.

Reaction of radon with water

Radon does not react with water. It does, however, dissolve slightly to the extent of about $230 \text{ cm}^3 \text{ kg}^{-1}$ at 20°C (293 K)

Reaction of radon with the halogens

Radon gas does not react with halogens other than fluorine. It seems that radon gas reacts with fluorine to form the difluoride radon(II) fluoride, RnF_2 , but the compound is not properly characterized.

Reaction of radon with acids

Radon gas does not react with acids.

Reaction of radon with bases

Radon gas does not react with bases.