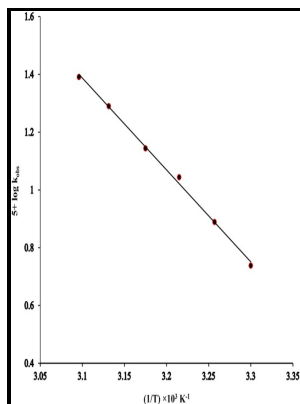


Cerium - a guide to its role in chemical technology

Molycorp - Cerium



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Cerium

Cerium was originally isolated in the form of its oxide, which was named ceria, a term that is still used. Finally, Mosander explained his delay, saying that he had extracted a second element from cerium, and this he called didymium.

Cerium

Of the dihalides, only the bronze diiodide CeI_2 is known; like the diiodides of lanthanum, praseodymium, and , this is a cerium III compound. But thankfully it's also got a softer side and that is a soothing remedy for burns, as Andrea Sella knows only too well.

Cerium

The most that the doctors can tell me is that it seems to work. This effect is suppressed by addition of cerium oxide. If you happen to want to grind or polish your own telescope, then cerium dioxide is probably what you will use.

Lanthanum

Lanthanum fluoride is insoluble in water and can be used as a test for the presence of La^{3+} .

Cerium

Shear modulus A measure of how difficult it is to deform a material. I was seen to by a specialist nurse who nodded at me and then handed me tub of ointment.

Cerium

There are some minerals that are almost exclusively cerium salts such as cerite, which is cerium silicate. Due to the chemical similarities of the lanthanides, chemical separation is not usually required for their applications, such as the mixing of mischmetal into steel to improve its strength and workability, or as catalysts for the cracking of petroleum.

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