

Unit cell volume of Lu-S (lutetium-sulphur) system

Phase Diagram

[00Grz] has investigated the crystal structure of Lu_2S_3 with X-ray diffractography at pressures up to 23 GPa. The corundum structure ($R\bar{3}c$) transforms reversibly in the Th_3P_4 structure (I43d) at > 5.0 GPa. Fig. 1 shows this at the example of the unit cell volume of Lu_2S_3 as a function of pressure.

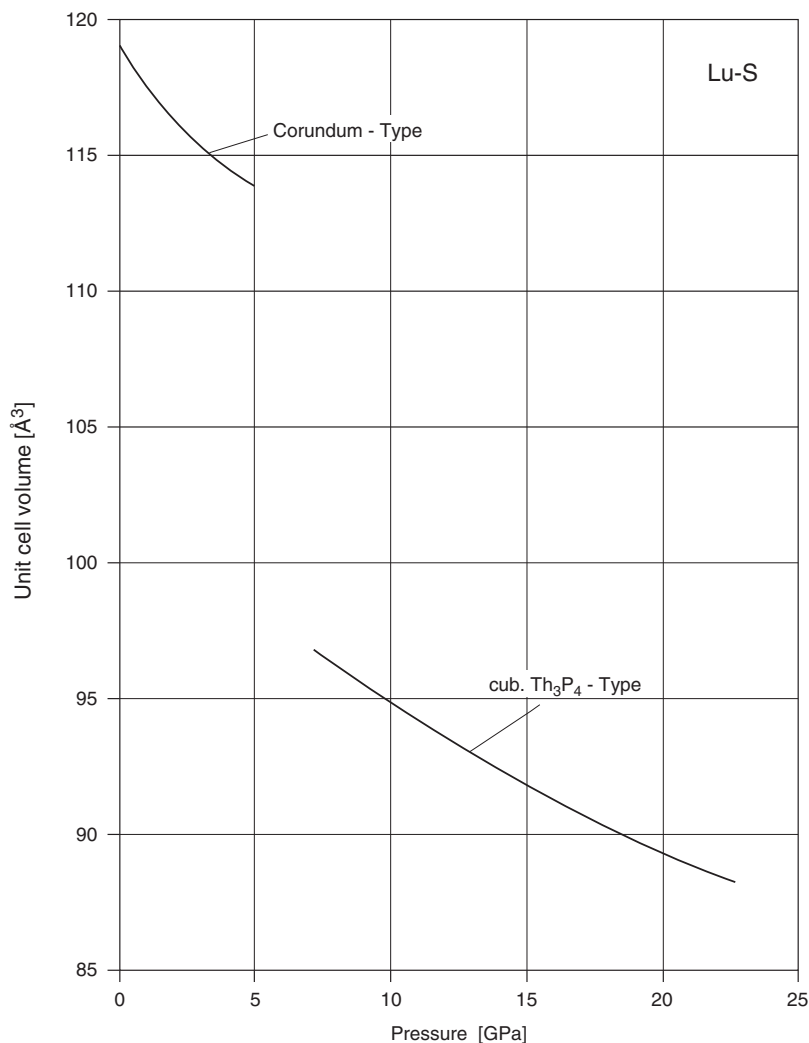


Fig. 1 Lu-S. Unit cell volume of Lu_2S_3 as a function of pressure [00Grz]

References

[00Grz] Grzechnik, A.: J. Alloys Comp. **299** (2000) 137