

La-Po

A-921

1966

MePo, rge Me = La, Ce, Pr, Nd, Sm, Eu,
Gd, Tb, Dy, Ho, Er, Tm, Yb, Lu, Y
(Tm).

Kershner C.J., De Sando R.J.,
Heidelberg R.F., Steinmeyer R.H.,
J. Inorg. and Nucl. Chem.,
1966, 28, 1581-1588

CA, 1966, 65, N8, 11734e

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LaPo, NbPo, GdPo, DyPo (P, ΔH_v) 1970

Steiger R.P., Miles Y.C., VIII 3948

J. Inorg. Nucl. Chem., 1970, 32, N^o11,
3469-70 (ann.)

Mass spectrometric investigations
of the thermal stability and
vaporization of lanthanum polonide,
neodymium polonide, gadolinium-
polonide, and dysprosium polonide.

50

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CA, 1970, 74, N^o4, 16311r



1981

ΔH

95:196587a Systems of vaporous polonium dioxide-oxides of aluminum, indium, lanthanum and gadolinium. Abakumov, A. S.; Khokhlov, A. D.; Reznikova, N. F. (USSR). *Zh. Neorg. Khim.* 1981, 26(8), 2005-10 (Russ). Gaseous PoO_2 does not react with Al_2O_3 or In_2O_3 in O at $>1050^\circ$. La_2O_3 and Gd_2O_3 at $850-900^\circ$ absorb PoO_2 in O atm. at a $\text{PoO}_2:\text{M}_2\text{O}_3$ ($\text{M} = \text{La}, \text{Gd}$) molar ratio $\leq 1.0 \pm 0.2$ and $\leq 2.0 \pm 0.3$, resp., with the formation of $\text{La}_2\text{O}_2\text{PoO}_3$ and $\text{Gd}_2\text{Po}_2\text{O}_7$, resp. Equations are given for the PoO_2 vapor pressure over $\text{La}_2\text{O}_2\text{PoO}_3$ and $\text{Gd}_2\text{Po}_2\text{O}_7$ at $820-1010^\circ$ and $820-1030^\circ$, resp.; the heat of the process is 284 ± 14 and $277 \pm 9 \text{ kJ mol}^{-1}$, resp. $\text{La}_2\text{O}_2\text{PoO}_3$ disoc. in vacuum at 440° .



C. A. 1981, 95, N 22.

$\text{La}_{0,5}\text{Po}_{0,5}(\text{K})$ (DM. 24606)

1986

Eichler B., Rossbach H.,
Z. Phys. Chem. (DDR),
1986, 267, N 4, 757-761.

$\Delta_f H_i$

