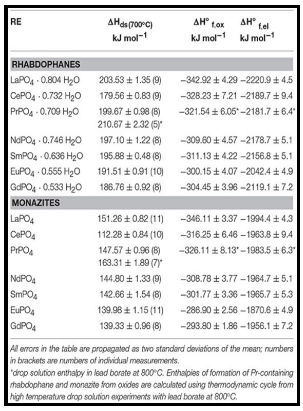
Thermodynamics of Rare-Earth Compounds.

s.n - Thermodynamic study of the rare earth vapour complexes: ScAl2Cl9 and YAl2Cl9



RE	$\Delta H_{ds(700°C)}$ kJ mol^{-1}	$\Delta H°_{f,ox}$ kJ mol^{-1}	$\Delta H°_{f,el}$ kJ mol^{-1}
RHABDOPHANES			
$LaPO_4 \cdot 0.804\ H_2O$	203.53 ± 1.35 (9)	−342.92 ± 4.29	−2220.9 ± 4.5
$CePO_4 \cdot 0.732\ H_2O$	179.56 ± 0.83 (9)	−328.23 ± 7.21	−2189.7 ± 9.4
$PrPO_4 \cdot 0.709\ H_2O$	199.67 ± 0.98 (6) 210.67 ± 2.32 (5)*	−321.54 ± 6.05*	−2181.7 ± 6.4*
$NdPO_4 \cdot 0.746\ H_2O$	197.10 ± 1.22 (8)	−309.60 ± 4.57	−2178.7 ± 5.1
$SmPO_4 \cdot 0.636\ H_2O$	195.88 ± 0.48 (8)	−311.13 ± 4.22	−2156.8 ± 5.1
$EuPO_4 \cdot 0.555\ H_2O$	191.51 ± 0.91 (10)	−300.15 ± 4.07	−2042.4 ± 4.9
$GdPO_4 \cdot 0.533\ H_2O$	186.76 ± 0.92 (8)	−304.45 ± 3.96	−2119.1 ± 7.2
MONAZITES			
$LaPO_4$	151.26 ± 0.82 (11)	−346.11 ± 3.37	−1994.4 ± 4.3
$CePO_4$	112.28 ± 0.84 (10)	−316.25 ± 6.46	−1963.8 ± 9.4
$PrPO_4$	147.57 ± 0.96 (6) 163.31 ± 1.89 (7)*	−326.11 ± 8.13*	−1983.5 ± 6.3*
$NdPO_4$	144.80 ± 1.33 (9)	−308.78 ± 3.77	−1964.7 ± 5.1
$SmPO_4$	142.66 ± 1.54 (8)	−301.77 ± 3.36	−1965.7 ± 5.3
$EuPO_4$	139.98 ± 1.15 (11)	−286.90 ± 2.56	−1870.6 ± 4.9
$GdPO_4$	139.33 ± 0.96 (8)	−293.80 ± 1.86	−1956.1 ± 7.2

All errors in the table are propagated as two standard deviations of the mean; numbers in brackets are numbers of individual measurements.
drop solution enthalpy in lead borate at 800°C. Enthalpies of formation of Pr-containing rhabdophane and monazite from oxides are calculated using thermodynamic cycle from high temperature drop solution experiments with lead borate at 800°C.

Description: -
-Thermodynamics of Rare-Earth Compounds.
-
Report of investigations (United States. Bureau of Mines) --
5468Thermodynamics of Rare-Earth Compounds.
Notes: 1
This edition was published in 1959

Tags: #Heat #capacity #and #thermodynamic #functions #of #some #rare

Thermodynamics of rare earth elements and uranium in gallium based quaternary metallic alloys

In addition, 15 mol L —1 H 3PO 4 85% Normapur was used as the source of the phosphate anions. Willit JL, Miller WE, Battles JE 1992 Electrorefining of uranium and plutonium——a literature review.

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They are thermodynamically metastable with respect to the corresponding monazites plus water at all temperatures under ambient pressure conditions. JCT Style guide Please consult the for further details on the requirements for submitting your paper to The Journal of Chemical Thermodynamics.

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Electrooptic and piezoelectric properties of La 2Ti 2O 7 single crystal. Conclusion The enthalpies of formation of a series of rhabdophanes were measured by high temperature drop solution calorimetry and the energetics of dehydration and transformation to monazite plus water were determined by DSC.

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