

Re-Y

ReO₃I

1973

141587u Rhenium iodide oxide [ReO₃I]. Formation, mass spectrum, ionization energy, and ~~enthalpy~~ of formation. Rabeneck, Helmut; Rinke, Klaus; Schaefer, Harald (Anorg.-Chem. Inst., Univ. Muenster, Muenster, Ger.). *Z. Anorg. Allg. Chem.* 1973, 397(2), 112-16 (Ger). In the evapn. of a mixt. contg. ReO₃ and AgI, ReO₃I was obsd. in the mass spec-

trum. The ionization energy of the mol. is 10.9 ev, and the enthalpy of formation $\Delta H^\circ_{298} = -106.1$ kcal/mole.

I; ΔH_f

2-818

C.A. 1973, 78 N22

(+)

IX

Re_3I_9

1973

$\text{Re}_3\text{Cl}_9-n\text{X}_n$

$\text{X} = \text{Br}, \text{I}.$

massenimp.

113905u The gaseous rhenium chloride, bromide, and iodide molecules Re_3Cl_9 , Re_3Br_9 , and Re_3I_9 . Halogen exchange and fragmentation. Schaefer, Harald; Rinke, Klaus; Rabenack, Helmut (Anorg.-Chem. Inst., Univ. Muenster, Muenster, Ger.); *Z. Anorg. Allg. Chem.* 1973, 403(1), 23-34 (Ger). The mass spectrum of Re_3I_9 was reported and compared with those of Re_3Cl_9 and Re_3Br_9 . The fragmentation corresponds with the stability of the bonds $\text{Re}-\text{Cl}$, $\text{Re}-\text{I}$, and $\text{Re}-\text{Re}$. In the mixed halides $\text{Re}_3\text{Cl}_{9-n}\text{X}_n$ ($\text{X} = \text{Br}, \text{I}$) the obsd. abundance of mols. with $n = 0-9$ may be described statistically using the same wt. for all 9 positions of halogen. No difference of the 3 bridging halogens and the 6 terminal halogens can be seen regarding the halogen exchange at 300° .

C.A. 1974. 80. N20

40228.3809

Ch, TE

Re₃I₉

48536

1474

4-3816

Schäfer Harald, Rinke Klaus, Rabeneck
Helmut. Die Gasmolekeln Re_3Cl_9 , Re_3Br_9 und
 Re_3I_9 -Halogenaustausch und Fragmentie-
rung. "Z. anorg. und allg. Chem.", 1974,
403, N 1, 23-34 (ном., рез. англ. 0054 нмк)

041 042

046

ВИНИТИ

70103.4234
Ex-Ch/XHB-z;
Ch, TC

29932

Re - Y

(11)

1976

8-16/05

Fergusson J.E., Reveldt P.F.

Tertiary phosphine complexes of rhenium
a spectroscopic study. "J. Inorg. and Nucl.
Chem.", 1976, 38, N 12, 2231-2237

(англ.)

07.83 чмк

759 764

ВИНИТИ

$\text{ReO}_3\text{I}_{(2\text{ay})}$

Rabeneck Helmut;
et al.

1973

(J)

"Z. anorg. und allg. Chem."

1973, 397, N2, 112-116.

● (cu. ReO_3I ; I)