

ACF<sub>2</sub>-

$AlF_2^-$  Farber Milton, 1971.

$AlF_4^-$  Srivastava, R.D.; Uy, O.M.

$\bar{A}e$  "From. Govt. Rep. Announce,"  
1971, 71, N23, 68.

(cm.  $BO^-$ , I)

AlF<sub>2</sub>

1973

(A.P.)

115332n High temperature negative ions. Gaseous Group III fluorides. Petty, Frederick; Wang, J. Ling-Fai; Steiger, R. P.; Harland, P. W.; Franklin, J. L.; Margrave, J. L. (Dep. Chem., Rice Univ., Houston, Tex.). *High Temp. Sci.* 1973, 5(1), 25-33 (Eng). Solid AlF<sub>3</sub>, GaF<sub>3</sub>, InF<sub>3</sub> and TlF were vaporized from a Knudsen cell into the source of a time-of-flight mass spectrometer to study their neg. ions in the gas phase. Species obsd. include F<sup>-</sup> from all 4 compds., and AlF<sub>2</sub><sup>-</sup>, GaF<sub>2</sub><sup>-</sup>, InF<sub>2</sub><sup>-</sup>, TlF<sub>2</sub><sup>-</sup> and TlF<sub>3</sub><sup>-</sup>, resp. Appearance potentials of these ions were detd. and measurements made of the excess kinetic energy of the ions produced by dissociative electron attachment in order to est. values for the electron affinities of the corresponding neutral species.

C.A.

1973

78

N18

(+4)

