

ELECTRONIC SUPPORTING INFORMATION

Journey of a molecule from the solid to the gas phase and vice-versa: direct estimation of vapor pressure of alkaline-earth metalorganic precursors for atmospheric pressure vapor phase deposition of fluoride films

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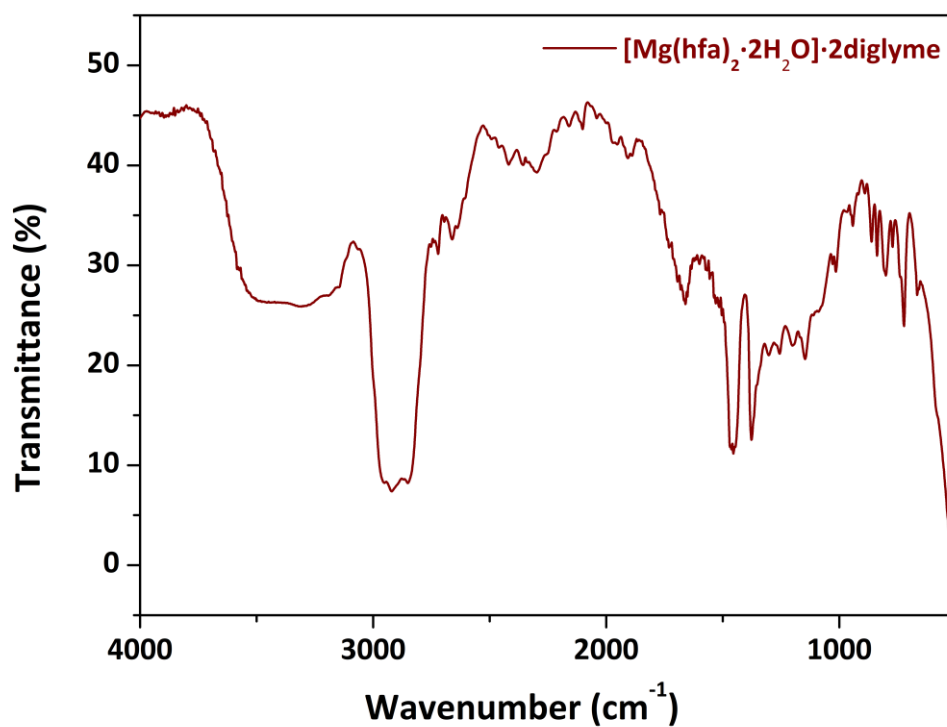


Fig. S1. FT-IR spectrum of the Mg adduct with the diglyme, $[\text{Mg}(\text{hfa})_2 \cdot 2\text{H}_2\text{O}] \cdot 2\text{diglyme}$.

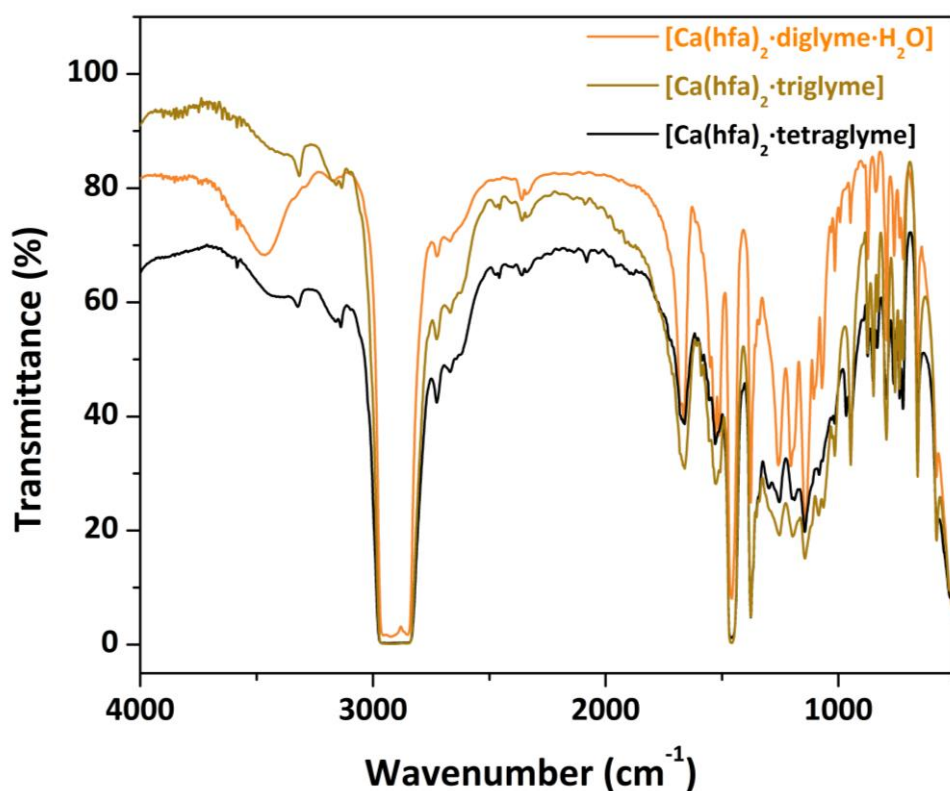


Fig. S2. FT-IR spectra of the Ca adducts with diglyme, triglyme and tetraglyme.

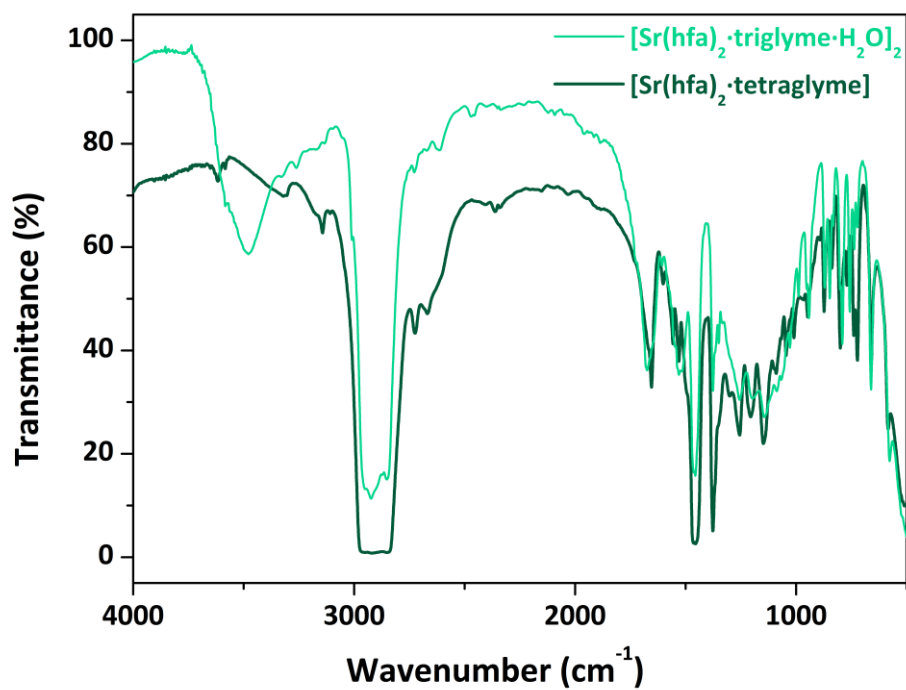


Fig. S3. FT-IR spectra of the Sr adduct with triglyme and tetraglyme.

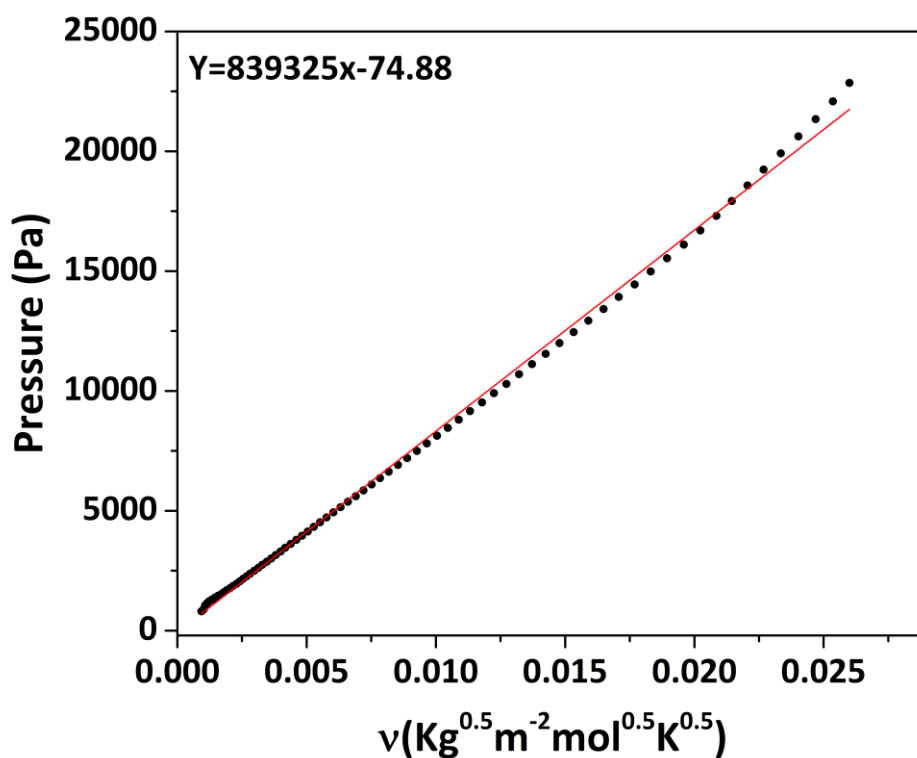


Fig. S4. Extrapolation of the k value from three distinct experiments on benzoic acid.

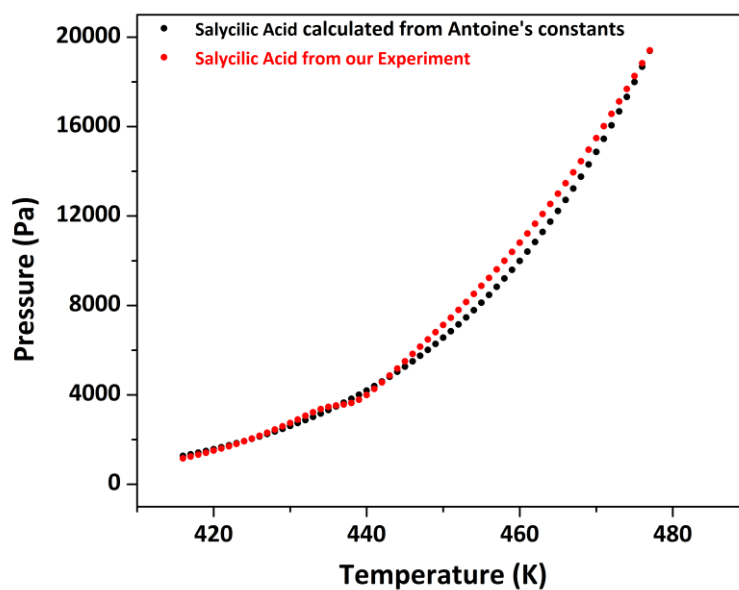


Fig. S5. Comparison of the vapor pressure of salicylic acid, determined in our experiments and the value derived from the Antoine' equation.

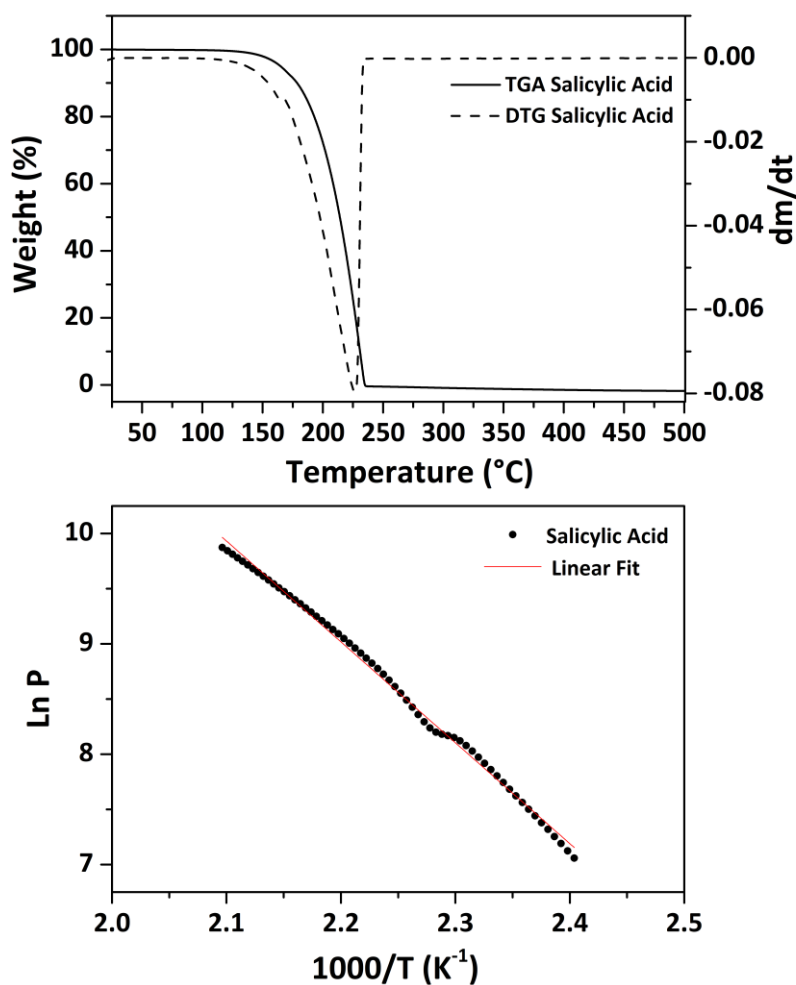


Fig. S6. TGA/DTG plot and Clausius-Clapeyron's plot of salicylic acid.

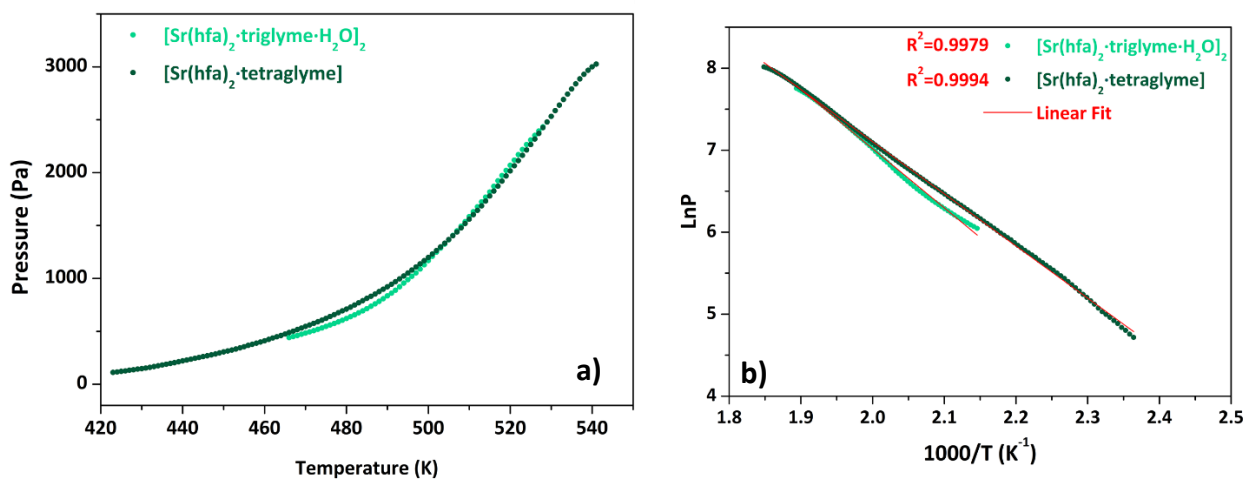


Fig. S7. Vapor pressure/temperature and ln P vs 1/T plots of “Sr(hfa)₂·L” adducts (with L=triglyme, tetraglyme).

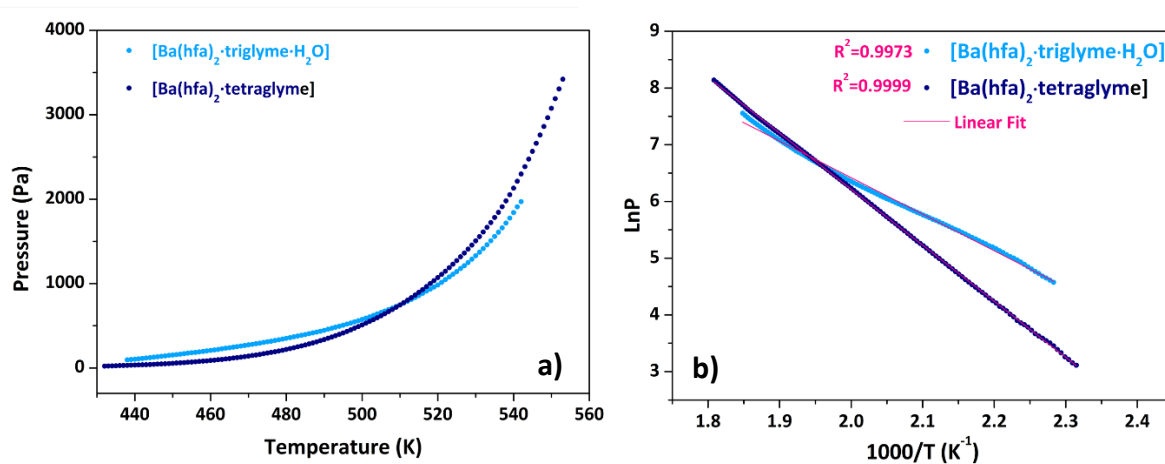


Fig. S8. Vapor pressure/temperature and ln P vs 1/T plots of “Ba(hfa)₂·L” adducts (with L=triglyme, tetraglyme).

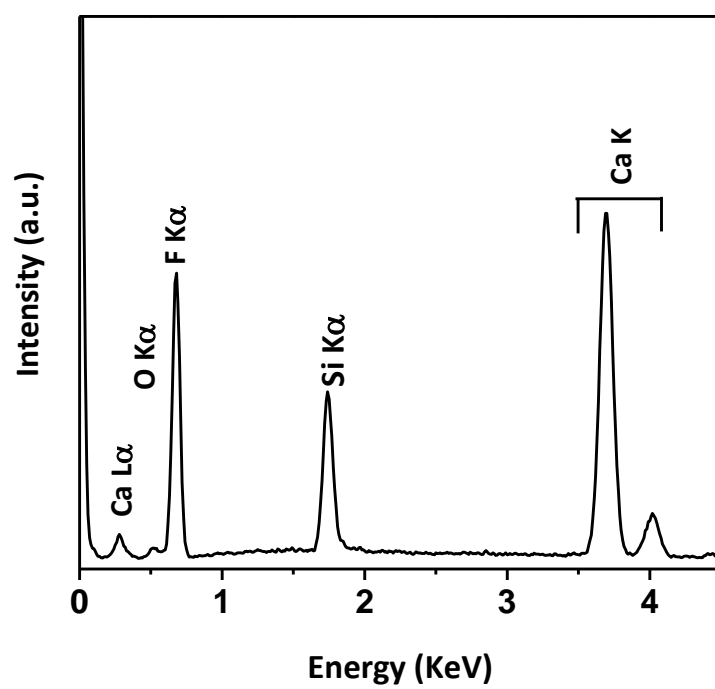


Fig. S9. EDX spectrum of the CaF_2 film deposited on Si.

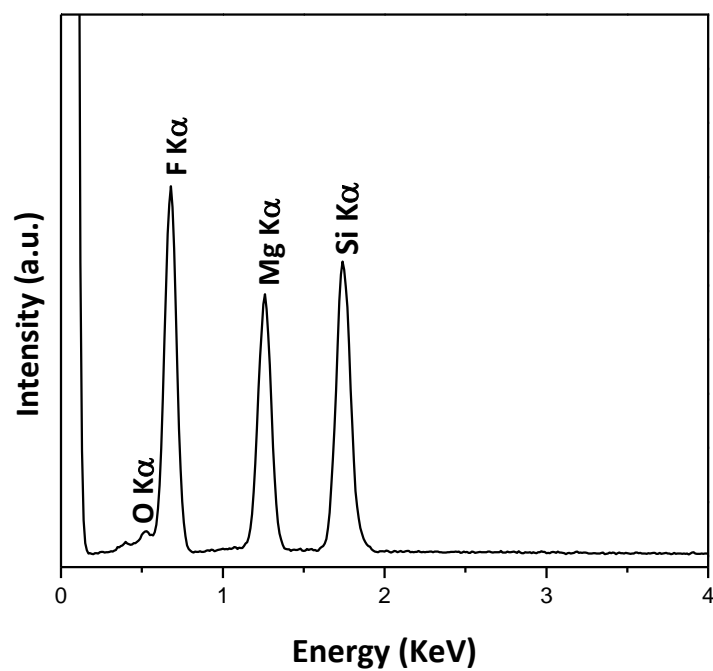


Fig. S10. EDX spectrum of the MgF_2 film deposited on Si.