

Figure S1- Structures of the dimers formed from the combination of a) two monomers of  $\text{AlF}(\text{CH}_3)_2$  and b)  $\text{AlF}(\text{CH}_3)_2$  and  $\text{Al}(\text{CH}_3)_3$ .

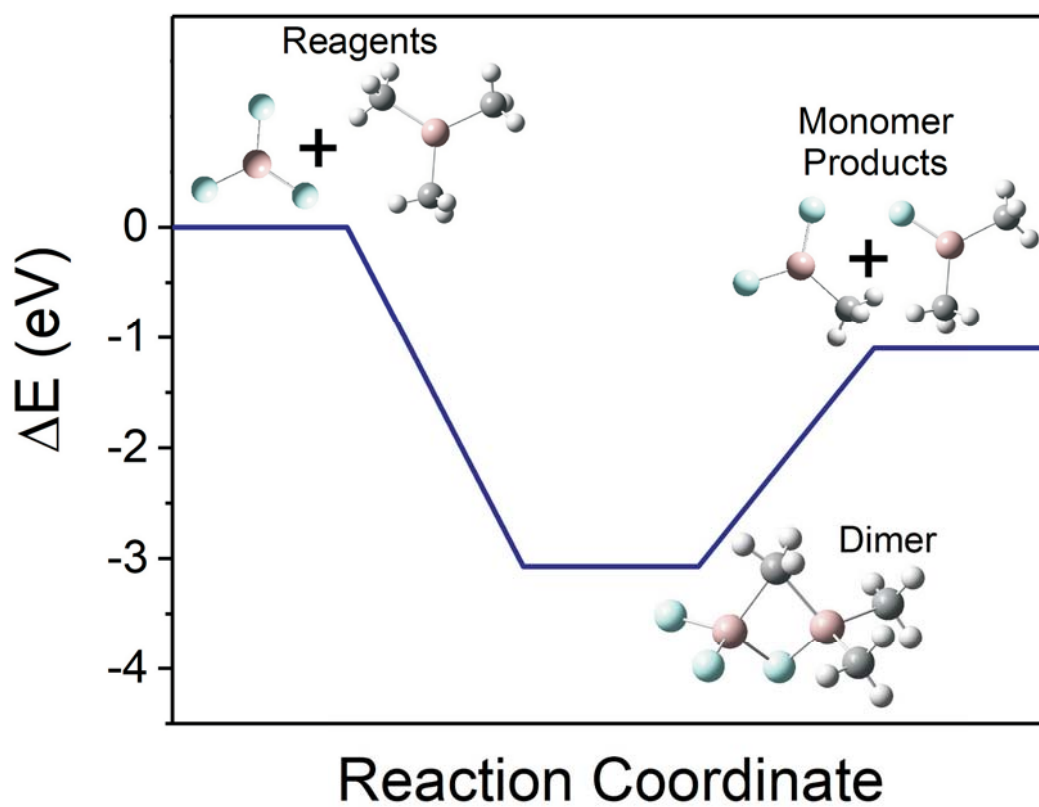


Figure S2- Potential energy surface for the reaction of  $\text{Al}(\text{CH}_3)_3$  and  $\text{AlF}_3$ .