Exploring the reaction channels between arsine and the hydroxyl radical

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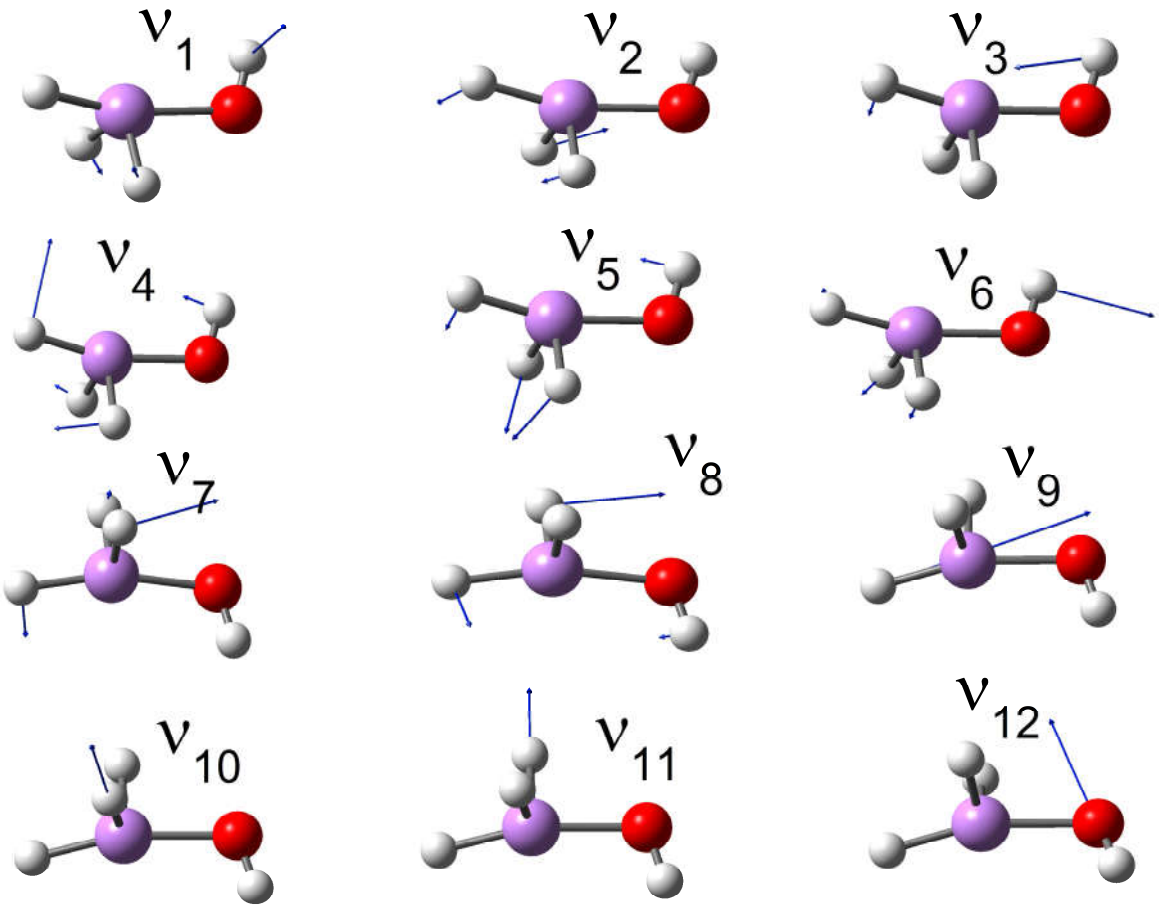

Figure S1. The atomic displacement vector representation of each **r1** vibration mode.

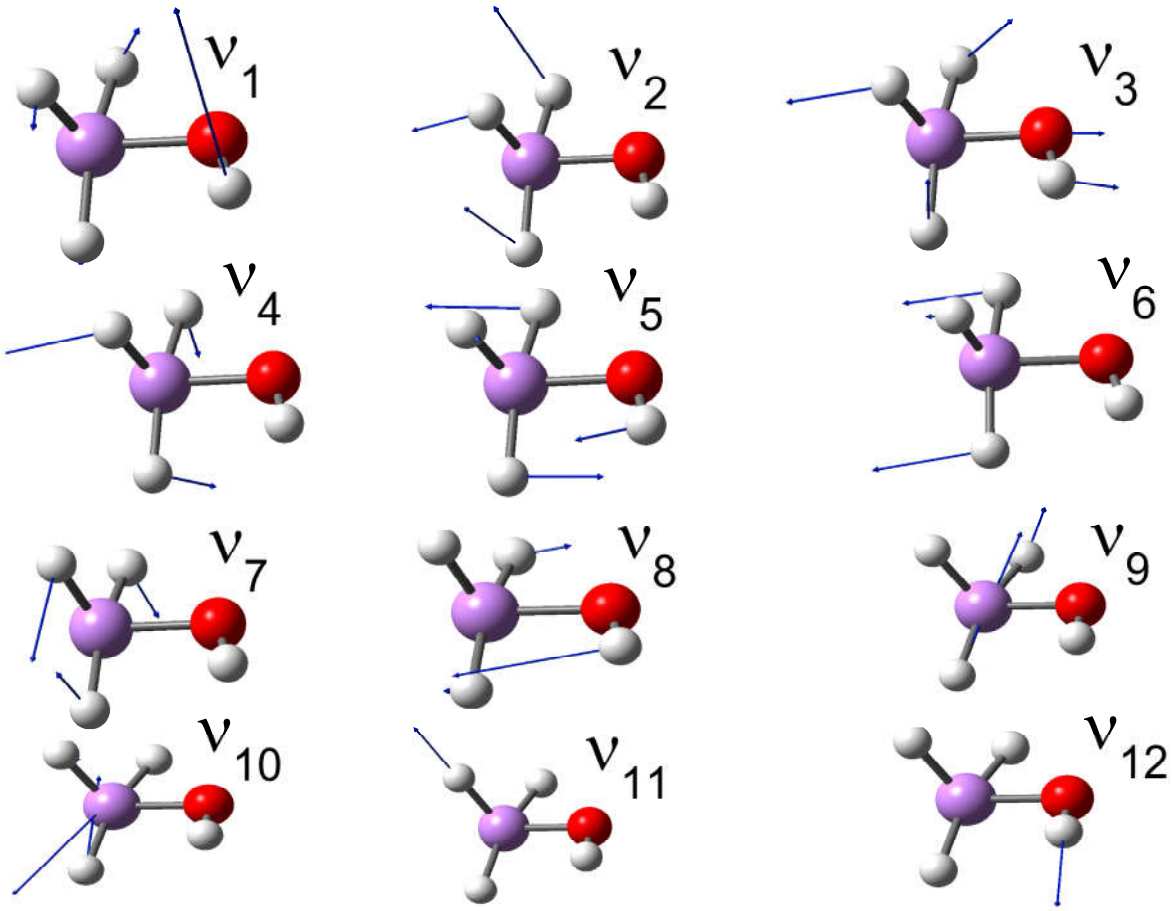

Figure S2. The atomic displacement vector representation of each **r2** vibration mode.

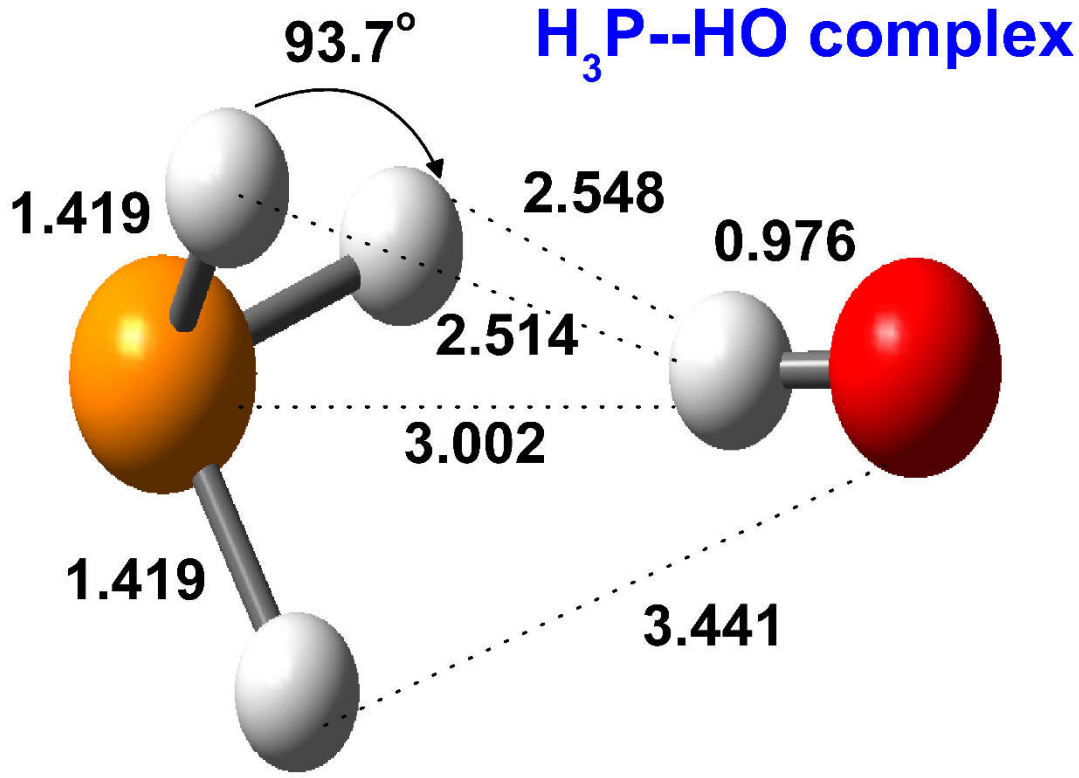

Figure S3. The optimized structure of the weak bound complex produced between phophine and the hydroxyl radical. Bond lengths (in Å) and angles (in degrees) obtained with B3LYP/6-311++G(2df,2pd).