

**DOES AROMATICITY IN A REACTION PRODUCT INCREASE OR
DECREASE THE INTRINSIC BARRIER? KINETICS OF THE
REVERSIBLE DEPROTONATION OF BENZOFURAN-3(2H)-ONE
AND BENZOTHIOPHENE-3(2H)-ONE**

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Supporting Information

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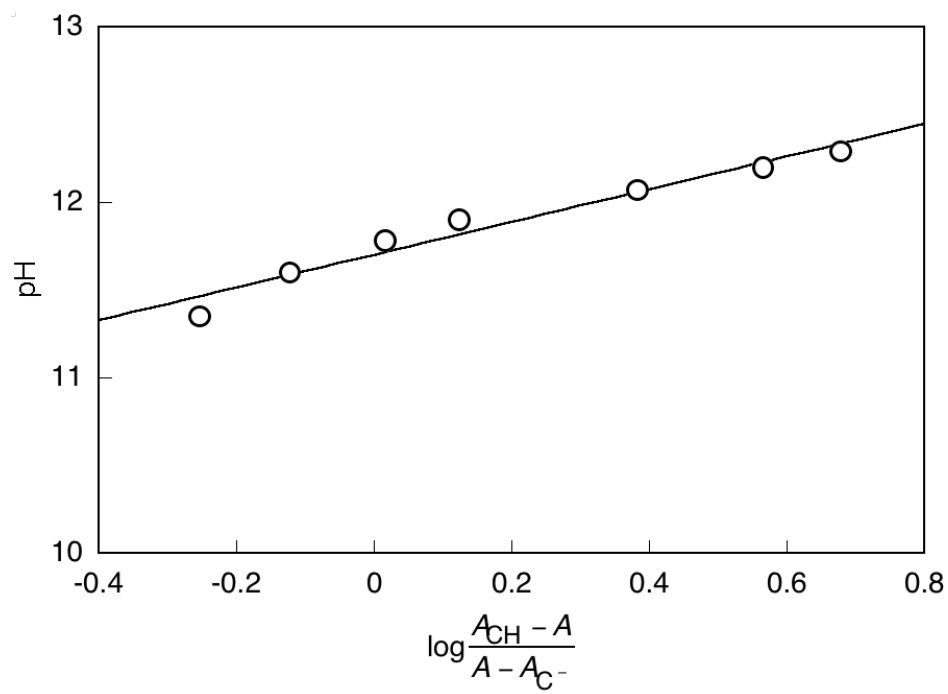


Figure S1. Spectrophotometric pK_a^{KH} determination for **3H-O**.

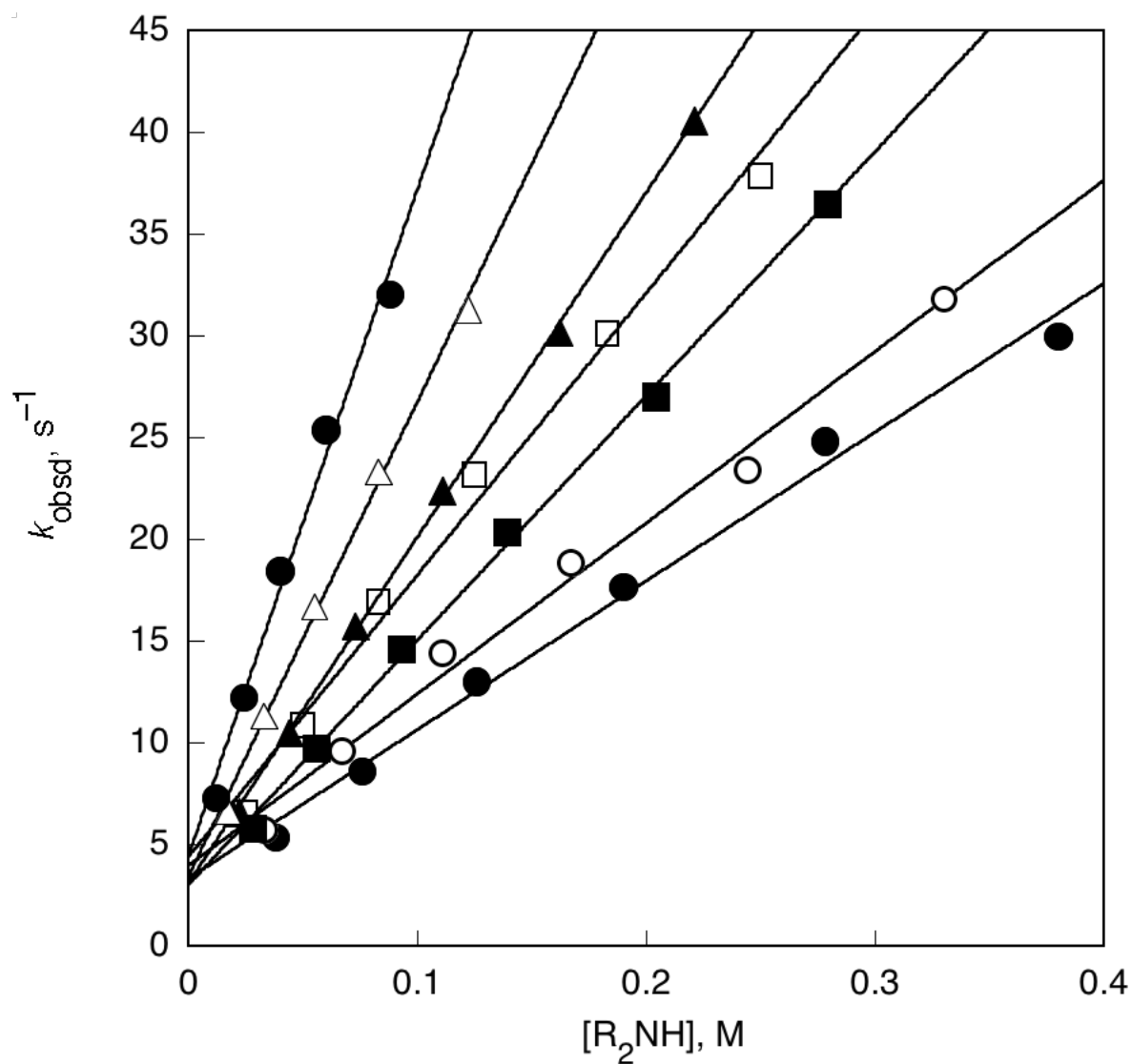


Figure S2. Reaction of **3H-O** with piperidine: J, pH 10.89; C, pH 11.09; H, pH 11.29; G, pH 11.39; B, pH 11.49; E, pH 11.69; J, pH 11.89.

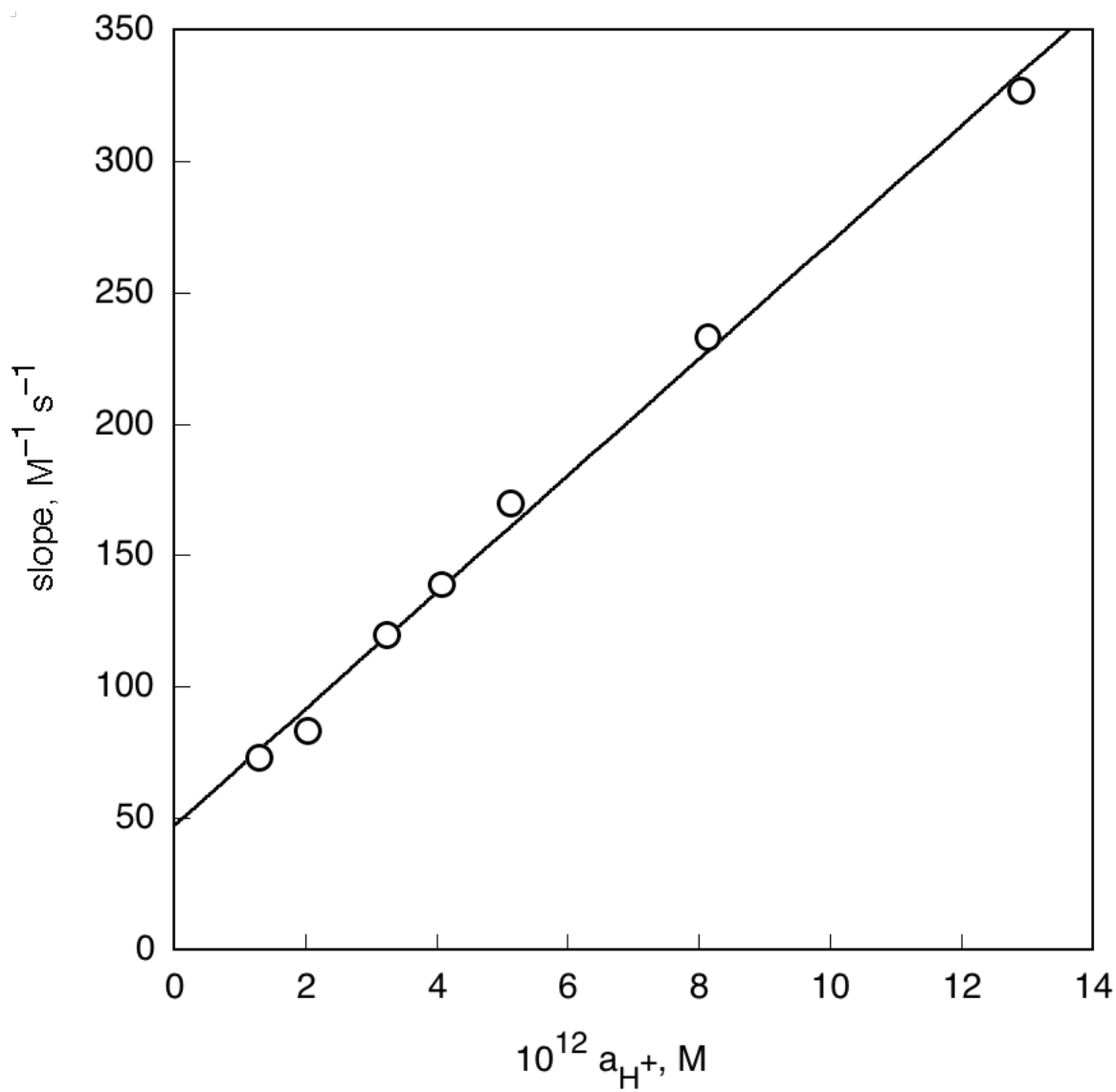


Figure S3. Reaction of **3H-O** with piperidine. Plot of slopes versus a_{H^+} according to eq 10.

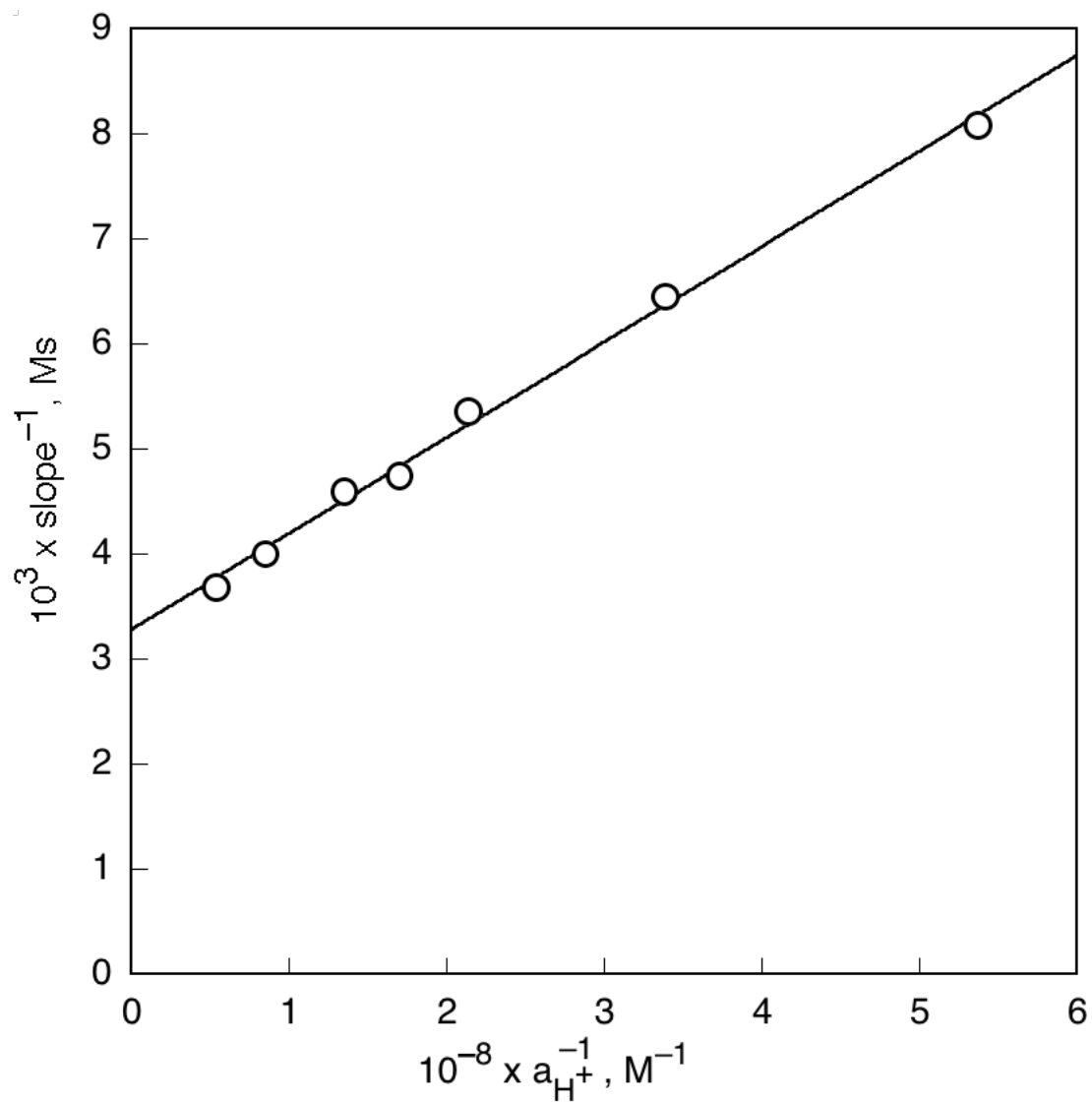


Figure S4. Reaction of **3H-O** with glycinamide. Plot of slope^{-1} versus $a_{\text{H}^+}^{-1}$ according to eq 12.

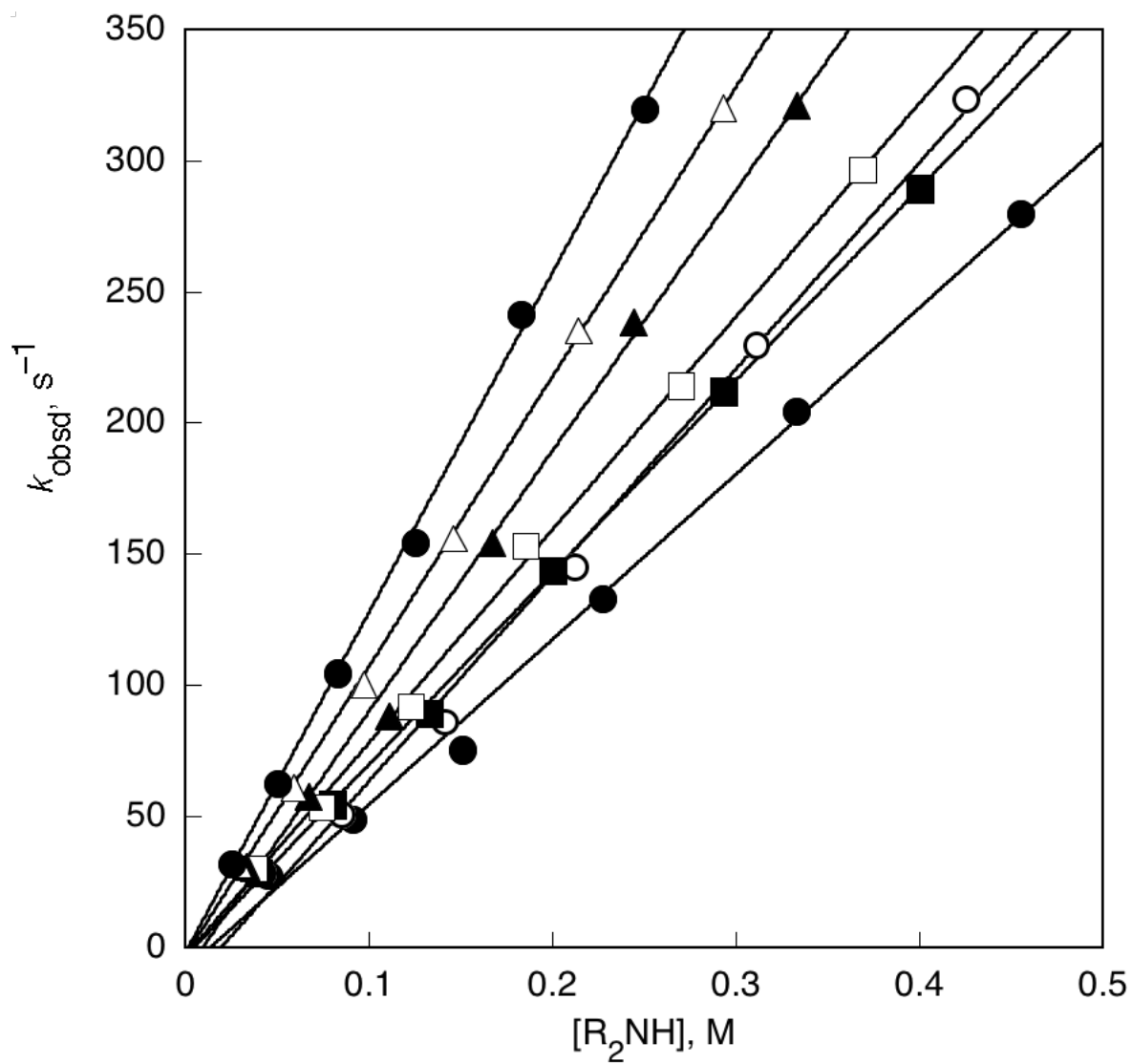


Figure S5. Reaction of **3H-S** with HEPA: J, pH 9.43; C, pH 9.58; H, pH 9.73; G, pH 9.88, B, pH 10.03; E, pH 10.18; J, pH 10.43.