

Created by Mary Grellier, University of Toulouse ([mary.grellier@icc-toulouse.fr](mailto:mary.grellier@icc-toulouse.fr)), Elizabeth A. Jensen, Aquinas College ([jenseeli@aquinas.edu](mailto:jenseeli@aquinas.edu)), Richard L. Lord, Grand Valley State University ([lordri@gvsu.edu](mailto:lordri@gvsu.edu)), Kari L. Stone, Benedictine University ([kstone@ben.edu](mailto:kstone@ben.edu)), Nathaniel K. Szymczak, University of Michigan ([nszym@umich.edu](mailto:nszym@umich.edu)), and Santiago Toledo, St. Edward's University ([stoledoc@stedwards.edu](mailto:stoledoc@stedwards.edu)) and posted on VIPEr ([www.ionicvipr.org](http://www.ionicvipr.org)) on June 30, 2016. Copyright 2016. This work is licensed under the Creative Commons Attribution-NonCommercial-ShareAlike 4.0 License. To view a copy of this license visit <https://creativecommons.org/licenses/by-nc-sa/4.0/>.

**Hypothesis Generation:** The Figure below shows a pair hydroboration catalysts. These only differ in protonation state (make sure you identify where). Using your understanding of basic hydroboration mechanisms from organic chemistry, predict which of the two catalysts is best suited for hydroboration. Provide chemical reasoning for your answer.

