

## Accepted Manuscript

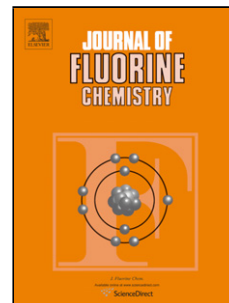
Title: Synthesis of hydrofluorocyclopentanes by vapor-phase catalytic hydrodehalogenation

Authors: Feiyao Qing, Chengping Zhang, Hengdao Quan

PII: S0022-1139(18)30133-7  
DOI: <https://doi.org/10.1016/j.jfluchem.2018.06.010>  
Reference: FLUOR 9188

To appear in: *FLUOR*

Received date: 23-3-2018  
Revised date: 25-6-2018  
Accepted date: 28-6-2018



Please cite this article as: Qing F, Zhang C, Quan H, Synthesis of hydrofluorocyclopentanes by vapor-phase catalytic hydrodehalogenation, *Journal of Fluorine Chemistry* (2018), <https://doi.org/10.1016/j.jfluchem.2018.06.010>

This is a PDF file of an unedited manuscript that has been accepted for publication. As a service to our customers we are providing this early version of the manuscript. The manuscript will undergo copyediting, typesetting, and review of the resulting proof before it is published in its final form. Please note that during the production process errors may be discovered which could affect the content, and all legal disclaimers that apply to the journal pertain.

## Synthesis of hydrofluorocyclopentanes by vapor-phase catalytic hydrodehalogenation

Feiyao Qing,<sup>a</sup> Chengping Zhang,<sup>a</sup> Hengdao Quan<sup>\*b</sup>

<sup>a</sup> Beijing Institute of Technology, 5 South Zhongguancun Street, Haidian District, Beijing, 100081, China

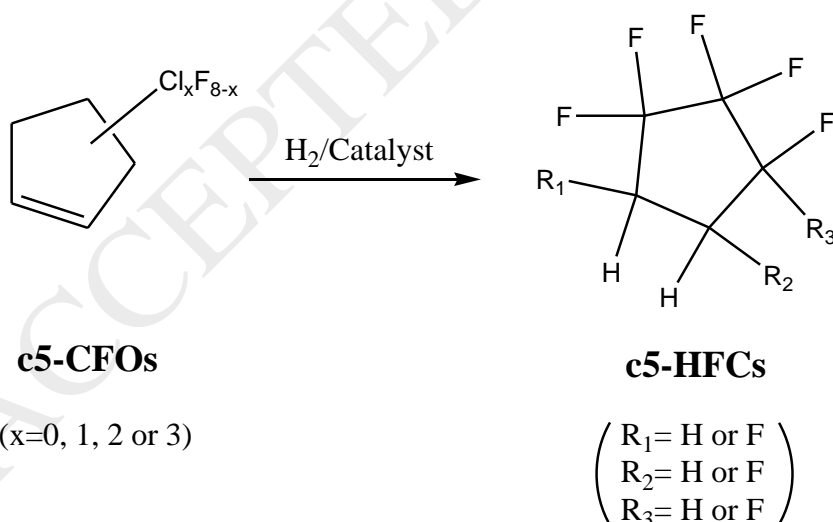
<sup>b</sup> National Institute of Advanced Industrial Science and Technology (AIST), 1-1-1 Higashi, Tsukuba, Ibaraki, 305-8565, Japan

\* Corresponding author: E-mail: hengdao-quan@aist.go.jp; Tel: 81-298-614196; Fax: 81-298-614401

### Graphical Abstract - Synopsis

Hydrofluorocyclopentanes (c5-HFCs) were prepared by gas-phase hydrodehalogenation of chlorofluorocyclopentenes (c5-CFOs) over various noble metals catalysts. The activity of the catalysts followed the order Pd > Pt > Rh > Ru, and the halogen atom on the C(sp<sup>2</sup>) atom exhibited stronger reactivity than the halogen on the C(sp<sup>3</sup>) atom.

### Graphical Abstract – Pictogram



Download English Version:

<https://daneshyari.com/en/article/7752251>

Download Persian Version:

<https://daneshyari.com/article/7752251>

[Daneshyari.com](https://daneshyari.com)