Accepted Manuscript

Phase-vanishing method with gas evolution and its application to organic synthesis

Ryosuke Matake, Yuki Niwa, Hiroshi Matsubara

PII: DOI: Reference:	S0040-4039(15)30530-X http://dx.doi.org/10.1016/j.tetlet.2015.12.115 TETL 47162
To appear in:	Tetrahedron Letters
Received Date:	9 November 2015
Revised Date:	24 December 2015
Accepted Date:	28 December 2015



Please cite this article as: Matake, R., Niwa, Y., Matsubara, H., Phase-vanishing method with gas evolution and its application to organic synthesis, *Tetrahedron Letters* (2015), doi: http://dx.doi.org/10.1016/j.tetlet.2015.12.115

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.

ACCEPTED MANUSCRIPT



Tetrahedron Letters

journal homepage: www.elsevier.com

Phase-vanishing method with gas evolution and its application to organic synthesis

Ryosuke Matake, Yuki Niwa and Hiroshi Matsubara*

Department of Chemistry, Graduate School of Science, Osaka Prefecture University, Sakai, Osaka 599-8531, Japan

ARTICLE INFO

ABSTRACT

- Article history: Received Received in revised form Accepted Available online
- Keywords: Phase-vanishing method Fluorous solvent Gaseous reagents Hydrogen sulfide Disulfide

Using a phase-vanishing (PV) system, hydrogen, oxygen, and hydrogen sulfide generated in situ from CaH₂, KO₂, and P₂S₅, respectively, were directly reacted with substances in the organic phase to afford the desired products. The selective synthesis of sulfides and disulfides was achieved with the evolution of H₂S gas via tuning the bases used in the PV method. Using this PV system, reactions with hazardous gaseous reagents can be carried out easily and safely in a common test tube.

2009 Elsevier Ltd. All rights reserved.

^{*} Corresponding author. Tel.: +81-72-254-9698; fax: +81-72-254-9163; e-mail: matsu@c.s.osakafu-u.ac.jp

Download English Version:

https://daneshyari.com/en/article/5266916

Download Persian Version:

https://daneshyari.com/article/5266916

Daneshyari.com