

Green Chemistry Vanillin Reduction.pdf

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Sodium Borohydride Reduction of Vanillin: A Low Solvent

<http://greenchem.uoregon.edu/PDFs/GEMsID90.pdf>

Sodium Borohydride Reduction of Vanillin – GEMs 2007 2 Background Vanillin (4-hydroxy-3-methoxybenzaldehyde), a pleasant smelling aromatic compound, occurs naturally in

is are not

<http://ibchem.com/IB/pdf/ee13c.pdf>

The reduction of vanillin by sodium borohydride produces vanillyl alcohol. ... Green Chemistry Principle 12 may be a less important factor in the decision of a ...

Bringing New and Green Chemistry into Undergraduate Laboratories

<http://www.2yc3.org/Archives/191/DAV%202YC3%202011.pdf>

Bringing New and Green Chemistry into Undergraduate Laboratories David A. Vosburg (and many student coworkers) Department of Chemistry Harvey Mudd College

Amine Chemistry - Indiana University-Bloomington

<http://courses.chem.indiana.edu/s343/documents/8.GreenAmineChemistry.doc>

Green Amine Chemistry. Read: Mohrig, ... The second step is a reduction by sodium ... Reagent o-vanillin p-toluidine NaBH₄ Acetic anhydride Product MW Moles ...

A convenient electrolytic process for the reduction of aldehydes

<http://www.tandfonline.com/doi/pdf/10.1080/17518253.2014.946973>

A convenient electrolytic process for the reduction of aldehydes ... Vanillin was also reduced (82% ... Green Chemistry Letters and Reviews, 2014

EXPERIMENT 4 REDUCTIVE AMINATION: THREE EASY PIECES Reading ...

http://sites.uci.edu/chem52labs/files/2013/04/M52LC_Experiment4S13.pdf

Write a mechanism for reduction of the imine to form an ... we will react ortho-vanillin with para ... Using the twelve principles of green chemistry ...

ORGANIC CHEMISTRY I - Towson University

<http://pages.towson.edu/ladon/Chem332Sp06.doc>

ORGANIC CHEMISTRY II. CHEM 332. ... Reduction of Vanillin MOE 1. 2/20 Experiment 2: Oxidation - Green Chemistry MOE 2. 2/27 Experiment 3: Grignard ...

The Synthesis of 6A, 6B-Dideoxy- - Michael Repucci

<http://michael.repucci.org/bstheis.doc>

The Department of Chemistry at. ... I offer my gratitude to Peggy Green for handling my numerous administrative ... followed by reduction with sodium borohydride.

Vanilla experiments - New Zealand Institute of Chemistry

http://nzic.org.nz/chemed-nz/issue-archive/ChemEdNZ_Jan10_Paterson2.pdf

Chemistry Education in New Zealand February 2010 ... vanillin vanillic acid Reduction: permanganate manganese (II) ... the solution turns green.

One-pot synthesis of lignin-stabilised platinum and palladium ...

<http://www.rsc.org/suppdata/gc/c2/c2gc16524d/c2gc16524d.pdf>

Supplementary material for One-pot synthesis of lignin-stabilised platinum and palladium nanoparticles and their catalytic behaviour in oxidation and reduction

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