Tel: 1(800)388-4221 Fax: 1(917)591-2212 Email: info@nanocs.com

#### **TECHNICAL DATA SHEET**

# Silane PEG NHS, MW 600, 1000, 2000, 3400, 5000, 10k, 20k

Catalog Numbers: PG2-NSSL-600, 1k, 2k, 3k, 5k, 10k, 20k.

Synonym: NHS PEG Silane, Triethoxyl Silane PEG NHS, Succinimidyl PEG Silane

### **Description:**

Silane PEG NHS is one of Nanocs' surface reactive polyethylene glycol derivatives that contain a triethoxysilane and a NHS group bridged by a linear PEG chain. NHS PEG Silane can be used to modify glass, silica and other surfaces via the reaction between hydroxyl group and alkoxyl silane group. Alkoxyl groups hydrolyze readily in aqueous solution in broad pH range and reaction can be completed in 30~60 min. Meanwhile, NHS can react with primary amine groups from proteins, antibodies, peptides and other materials quickly and efficiently at alkaline pH. between alkoxysilane and amine group offers better water solubility, less steric hindrance and enhanced stability. Compared to other organic silane molecules, Nanocs' silane PEG derivatives are hydrophilic and biocompatible. All silanization reactions can performed in aqueous solution without adding any organic solvents.

#### **Product Structure:**

## **Product Specifications:**

Composition: Silane PEG NHS.

Appearance: White/off-white solid, semi-solid

depends on molecular weight.

Solubility: 10 mg/mL, clear in water,

chloroform, DMSO, etc.

Reactive groups: Silane and NHS.

Reactive to: Hydroxyl and amines.

## Handling and Use:

**Silane PEG NHS** is sensitive to moisture and temperature. For best use, material should always be kept in low temperature in dry condition. Prepare fresh solution right before use. Avoid frequent thaw and freezing. For more information about using this product, visit **www.nanocs.net.** 

### **Storage Conditions:**

**NHS PEG Silane** should be stored at -20 °C. Desiccate. Materials may be handled under inert gas for best stability. Re-test material after 6 months.

This product is for research use only and is not intended for use in humans or for diagnostic use.

### **Related Products:**

Silane PEG Maleimide Silane PEG amine
Silane PEG Biotin Silane PEG COOH
Silane PEG Azide Silane PEG FITC

#### To Order:

Order online: www.nanocs.net

Order by Email: sales@nanocs.com

Order by phone: 1(800) 388-4221; 1(888)

908-8803

For more information, visit www.nanocs.net

The information given in this document is to the best of our knowledge accurate, but no warranty is expressed or implied. It is the user's responsibility to determine the suitability for their own use of the products described herein, and since conditions of use are beyond our control, we disclaim all liability with respect to the use of any material supplied by us. Nothing contained herein shall be construed as a recommendation to use any product or to practice any process in violation of any law or any government regulation.