

## TECHNICAL DATA SHEET

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

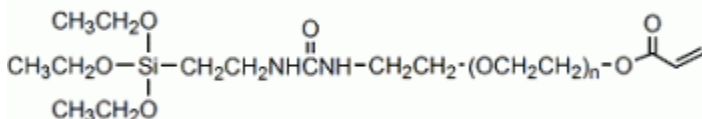
Catalog Numbers: PG2-ARSL-1k, 2k, 3k, 5k, 10k, 20k.

Synonym: Acrylate PEG Silane

#### Description:

**Silane PEG acrylate** is one of Nanocs' surface reactive polyethylene glycol Pegylation and silanization reagents that contain a terminal triethoxysilane and an acrylate group on each PEG terminus. Acrylation PEG Silane can be used to modify glass, silica and other surfaces via the reaction between hydroxyl group and alkoxy silane group. **Triethoxyl, trimethoxyl** or other alkoxy silane reacts with -OH groups easily with catalytic amount of water. Meanwhile, Acrylate group undergoes free radical polymerization reactions to form polyacrylate polymers. Compared to other organic silanes, Nanocs' silane PEG derivatives are soluble in aqueous solution. All reactions can be performed in aqueous solution without adding any organic solvents. Alkoxy groups hydrolyze readily in aqueous solution and reaction can be completed at room temperature in 30~60 min.

#### Product Structure:



#### Product Specifications:

- Composition: **Silane PEG acrylate.**
- Appearance: White/off-white solid, semi-solid depends on molecular weight.
- Solubility: 10 mg/mL, clear in water, chloroform, DMSO, etc.
- Reactive groups: Triethoxyl and acrylate.

#### Handling and Use:

**Silane PEG acrylate** 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](http://www.nanocs.net).

#### Storage Conditions:

**Silane PEG acrylate** should be stored at -20 °C or lower. Desiccate. Materials may be handled under inert gas for best stability. Re-test material after 3 months.

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

#### To Order:

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