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# NEWS RELEASE

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## **Gelest Introduces New Silicon-Based Reagents for Cross Coupling**

MORRISVILLE, Pa. (January 11, 2012) – Cross-coupling reactions, a recently introduced synthetic method for carbon-carbon bond formation, are discussed in detail in a new 52-page brochure from Gelest, Inc., titled “Silicon-Based Cross-Coupling Reagents.” The new brochure contains over 160 references, including key reviews on the formation of *biaryl, styrene, diene, triene, aryl acetylene, diaryl acetylene, pyridine and enyne derivatives and Heck coupling/cross-coupling cascade reaction sequences*.

The formation of carbon-carbon bonds through the cross-coupling of an organic halide or pseudohalide with an organometallic reagent has drawn the attention of medicinal chemists, according to Gerald L. Larson, Gelest's Vice President for Research and Development. "These reactions represent enhanced flexibility for the formation of the carbon-carbon bond along with good functional group tolerance," said Dr. Larson. "Among these cross-coupling reactions is the Hiyama reaction, which employs an organosilane as the organometallic partner in the cross-coupling reaction."

The new brochure presents numerous examples of the coupling of aryl and vinyl halides with various organosilanes as viable alternatives to the Stille, Suzuki-Miyaura and Sonogashira protocols. A list of over 100 products is available from Gelest with information on their use by cross-coupling class. Many of these compounds are new additions to the company's product line. The silicon-based products provide a non-

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toxic, easily handled, economic alternative to the commonly employed tin and boron cross-coupling derivatives.

For more information about Gelest's silicon-based cross-coupling agent offerings or to receive a copy of its new brochure, please call 215-547-1015, or send an email to [info@gelest.com](mailto:info@gelest.com). To download a digital copy of the brochure, please visit the Gelest website at [www.gelest.com](http://www.gelest.com).

### **Company Information**

Gelest, Inc., headquartered in Morrisville, PA, is recognized worldwide as an innovator, manufacturer and supplier of commercial and research quantities of over 3,000 organosilicon compounds, metal-organic compounds and silicones. Gelest serves advanced technology markets through a materials science driven approach. The company provides focused technical development and application support for semiconductors, optical materials, pharmaceutical synthesis, diagnostics and separation science, and specialty polymeric materials. “Gelest – Enabling Your Technology.”

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