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## **Design of Experiment Approach: Ditelluride-Catalyzed Synthesis of Phosphoramidate and Phosphonate Compounds**

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In order to reduce time and costs, and produce more information during optimization step, design of experiment (DoE) is a established methodology for product and process improvement. DoE is becoming a standard toolkit for synthetic chemists with growing synthetic complexity and increased regulatory expectations. To exemplify this approaching, we described the synthesis of phosphoramidate and phosphonate compound employing diphenyl ditelluride as organic catalyst.