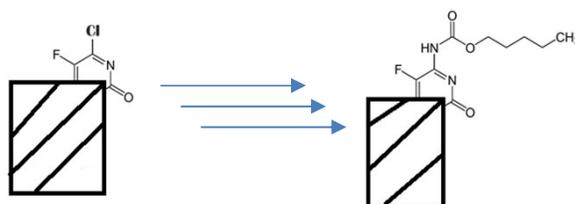


Case Study-4

Reactor Customization & Process Development using Flow Technology:



Scope:

Optimizing the reaction conditions, followed by Reactor design and feasibility studies.

Complexity:

Handling of Viscous reaction mass and acidic effluent. Had to address the issues related to unreacted components.

Quality & Yield:

Selective nitration and limitation of Isomer formation with more than 98% pure material.

Accomplishment:

Shilpa explored various permutations and combinations to determine a size that is thermodynamically stable and yields the correct isomer.

Shilpa demonstrated the process, transferred the Tech pack for continuous nitration. Currently working on commercial scale production protocol.

