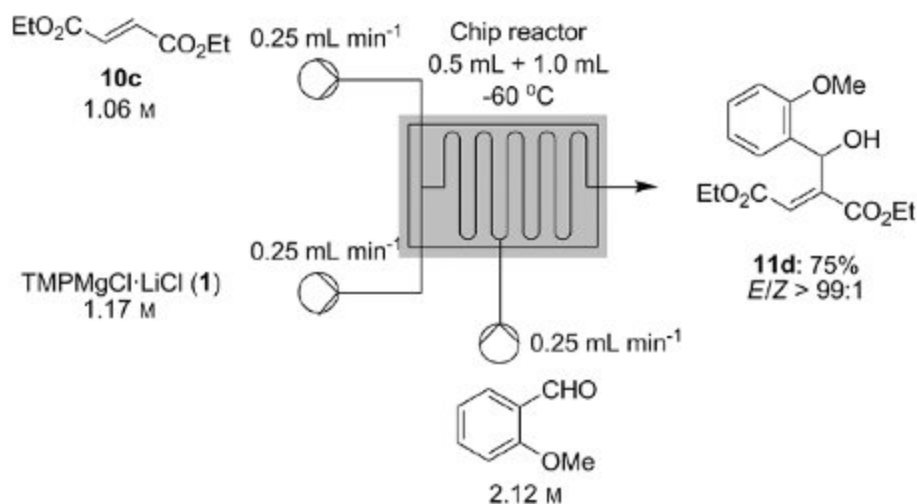


Publication 37: Continuous Flow Magnesyation of Functionalised Heterocycles & Acrylates with $\text{TMPMgCl}\cdot\text{LiCl}$



Knochel's group in Munich have recently disclosed how a variety of functionalised heterocycles and sensitive acrylates can be rapidly magnesiated and subsequently quenched with an electrophile under continuous flow-through conditions using a Uniqsis static mixer/reactor chip.

A key advantage is that, in contrast to typical batch procedures, these reactions required non-cryogenic conditions (typically 25°C); moreover the procedure could be quickly scaled to 45 mmol without modification of the reaction conditions.

Metalations under flow-through conditions permitted magnesiations that did not afford the desired product under batch conditions and acrylates could be magnesiated and quenched to afford products with high stereoselectivities without concomitant polymerisation.

[T. P. Petersen, M. R. Becker, P. Knochel, *Angew. Chem. Int. Ed.*, 2014, 53, 7933.](#)

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