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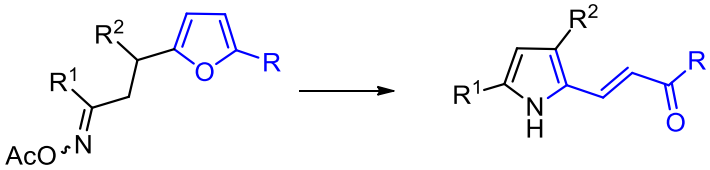
REARRANGEMENT OF FURYL-TETHERED OXIMES: SYNTHESIS OF FUNCTIONALIZED PYRROLES

Makarov A. S., Fadeev A. A., Vasev Y. A., Uchuskin M. G.
Perm State University / Bukireva, 15, Perm, 614990, Russia
E-mail: antony.s.makarov@psu.ru

Abstract. Polyarylated pyrroles have been extensively utilized as building-blocks in material science.[1] High demand for functionalyzed pyrrole substrates motivated us to develop a general synthetic protocol toward such valuable compounds based on furan dearomatization approach.[2]

We report a novel dearomatizative rearrangement of furyl-tethered oxime esters that provides 2,4-di(het)arylpyrroles possessing highly reactive acylvinyl fragment.[3]



Scheme 1. Synthesis of functionalized pyrroles

Scope and limitations of the described protocol as well as further synthetic applications of the obtained products will be discussed.

References

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