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Synthesis of Highly Functionalized Pyrrolidinones From Mesoionic 4-Trifluoroacetyl-1,3-oxazolium-5-olates and Aminomalonate

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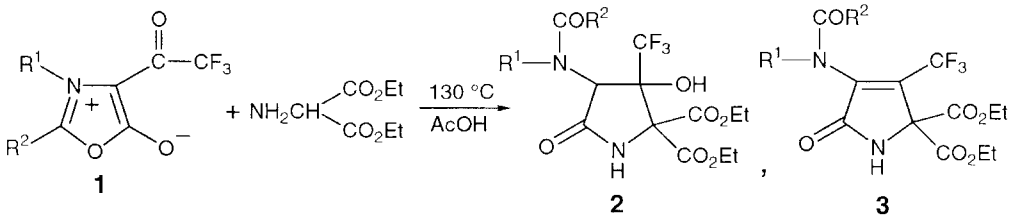
Abstract: Mesoionic 4-trifluoroacetyl-1,3-oxazolium-5-olates (**1**) undergo tandem addition of aminomalonate to afford 3-amido-4-trifluoromethylpyrrolidin- 2-ones (**2**) in moderate yields.

Table. Reaction of mesoionic compounds (**1**) and aminomalonate



Run	**1**	R^1	R^2	Product, % yield **2**	**3**
1	**a**	Ph	Ph	62	-
2	**b**	Me	Ph	17	30
3	**c**	Me	4-$MeOC_6H_4$	51[a]	-
4	**d**	Ph	Me	44	-
5	**e**	Bn	Me	48	-

[a] The yield was estimated by ^{1}H NMR due to contamination of *N*-acetylamino-malonate and acetylation of the mixture gave pure **4c** in 47% yield.

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