



Erratum

Erratum to “Metal triflates–methanesulfonic acid as new catalytic systems: application to the Fries rearrangement” [Tetrahedron Lett. 44 (2003) 6379][☆]

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The publisher regrets that the AH column of Table 2 should have read as follows:

Table 2. Catalysis of Fries rearrangements by MX₃–AH catalytic systems

Entry	Aromatic substrate ^a	Catalytic system		Product, yield ^b (%) and time
		MX ₃	AH	
1	1a	Sc(OTf) ₃	None	1b , 67, 1 h
2	1a	Sc(OTf) ₃	CH ₃ CO ₂ H	1b , 55, 1 h
3	1a	Sc(OTf) ₃	MSA	1b , 82, 1 h
4	1a	Y(OTf) ₃	MSA	1b , 52, 1 h
5	1a	Y(NTf ₂) ₃	MSA	1b , 20, 1 h ^c
6	1a	Y(OMs) ₃	MSA	1b , 3, 5 h ^d
7	2a	Y(OTf) ₃	MSA	2b , 82, 5 h
8	3a	Y(OTf) ₃	MSA	3b , 87, 5 h
9	4a	Y(OTf) ₃	MSA	4b , 80, 5 h
10	5a	Sc(OTf) ₃	MSA	5b , 72, 16 h ^e
11	6a	Y(OTf) ₃	MSA	6b , 60, 2 h 30 ^{f,g}
12	7a	Y(OTf) ₃	MSA	7b , 60, 2 h 30

^a Conditions: Aromatic substrate/MX₃/AH=1/0.05/0.1 molar ratio except for entry 10 where this ratio is 1/0.1/0.2 and entries 11 and 12 where this ratio is 1/0.2/0.4. Reactions carried out at 100°C using toluene as the solvent (*c*=0.867 M relative to the aromatic substrate) except for entries; aromatic substrates: naphthyl acetate (**1a**), naphthyl hexanoate (**2a**), naphthyl isobutyrate (**3a**), naphthyl cyclohexylcarboxylate (**4a**), naphthyl benzoate (**5a**), 3-methoxy-1-phenyl acetate (**6a**), 3-methyl-1-phenyl acetate (**7a**).

^b Products: 1-hydroxy-2-naphthyl pentyl ketone (**2b**), 1-hydroxy-2-naphthyl isopropyl ketone (**3b**), 1-hydroxy-2-naphthyl cyclohexyl ketone (**4b**), 1-hydroxy-2-naphthyl phenyl ketone (**5b**), 2-hydroxy-4-methoxyphenyl methyl ketone (**6b**), 2-hydroxy-4-methylphenyl methyl ketone (**7b**).

^c Only traces of **1b** were obtained under the same conditions when Y(NTf₂)₃ was used alone.

^d No reaction occurred under the same conditions when Y(OMs)₃ was used alone.

^e This experiment has been carried out at 150°C using 4-chlorotoluene instead of toluene.

^f This experiment has been carried out in nitroethane instead of toluene and gave a similar yield.

^g Containing 4-hydroxy-2-methoxyphenyl methyl ketone (yield 7%).

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