pyrazine derivatives

R 0550

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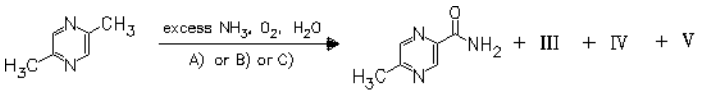
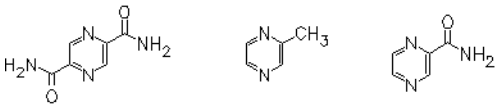
Catalytic Synthesis of Pyrazinamide from 2,5-Dimethylpyrazine. — Oxidative ammonolysis of 2,5-dimethylpyrazine (I) in the presence of mixed Mo–Sb–Ti oxide catalysts offer an effective access to the antituberculotic agent pyrazinamide (V). The composition of the product mixture can be controlled by the Ti-content of the catalyst system. — (KAGARLITSKII, A. D.; KRICHEVSKII, L. A.; AMIRKHANOVA, A. K.; Khim.-Farm. Zh. 33 (1999) 7, 38-39; Inst. fitokhim., Nats. Akad. nauk Resp. Kaz., Karaganda, Kazakhstan; RU)



I II

A): $MoO_3/Sb_2O_3/TiO_2$ (4:2:1) (cat.), 380°C	3%	5%	28%	21%
B): $MoO_3/Sb_2O_3/TiO_2$ (4:2:1) (cat.), 420°C	2%	6%	2%	76%
C): $MoO_3/Sb_2O_3/TiO_2$ (4:2:3) (cat.), 440°C	0%	86%	0%	5%



III IV V