具有生物活性的有机硅化合物的研究**X. 3-**(三甲硅基)丙基硫代 (**N-**取代)乙酰胺 的合成和质谱研究 谢庆兰,贺水济,单志兴,张法义,林Chui,黄承义

南开大学元素有机化学研究所.天津(300071);南开大学测试计算中心.天津 (300071)

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摘要 本文合成了15个3-(三甲硅基)丙基硫代(N-取代)

乙酰胺类化合物。通过对这些化合物的红外光谱和核磁共振(^1H,^1^3C)谱的研究,

确证了它们的表征结构。质谱数据表明,这类化事物的裂解机理主要取决于硅烷、

酰胺和硫醚的断裂方式。这类化合物的毒性较大,不利于用作抗癌试验。

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Studies on organosilicon compounds with biological activity X. synthesis of 3-(trimethylsilyl) propylthio (N-substituted) acetamide and study on mass spectra

Xie Qinglan, He Shuiji, Shan Zhixing, Zhang Fayi, LIN Chu, Huang Chengyi

Nankai Univ, Elementoorgan Chem Lab.Tianjin(300071); Nankai Univ., Center of Testing and Computer. Tianjin(300071)

Abstract Fifteen 3-(trimethylsilyl)propylthio (N-substituted) acetamides were synthesized. Their structure was studied by IR and NMR (^1H, ^1^3C). The MS of these products were determined. It has been found that fragmentation mechanism is dependent mainly on the fragment of Si-C, amide bonds and thio-ether bonds. These compounds are highly toxic.

Key wordsMASS SPECTROGRAPHYSYNTHESISACETAMIDEBIOLOGICAL ACTIVITYTHIOACETAMIDENUCLEAR MAGNETIC RESONANCEINFRARED SPECTROPHOTOMETRY

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