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SYNTHESIS OF 7-THIA-1-AZABICYCLO (4,3,0) NONANE DERIVATIVES VIA FREE RADICAL REACTION

Michel P. Crozet^a; Mustapha Kaafarani^a; Jean-Marie Surzur^a

^a Laboratoire de Chimie Organique B associé au CNRS Faculté des Sciences et Techniques St Jérôme, Cedex, FRANCE

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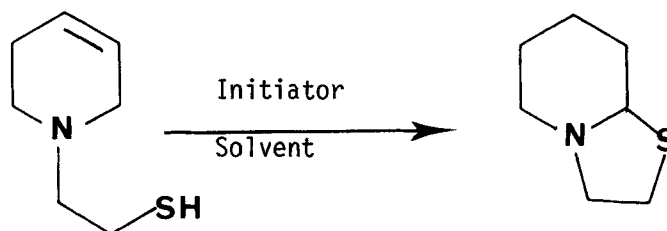
Laboratoire de Chimie Organique B associé au CNRS

Faculté des Sciences et Techniques St Jérôme - 13397 MARSEILLE Cedex 4,
FRANCE.

Several β -aminothiols were prepared by condensation of 3-piperidineine and different thiiranes.

These compounds have been cyclised by free radical reaction initiated by chemical initiators or light.

The products in this reaction were not the products of intramolecular free radical addition on the double bond but 7-thia-1-azabicyclo (4,3,0) nonane derivatives obtained in goods yields. e.g.



The origin of the compounds is an intramolecular hydrogen abstraction by a thiyl radical.

Mechanism and scope of this free radical reaction will be discussed.