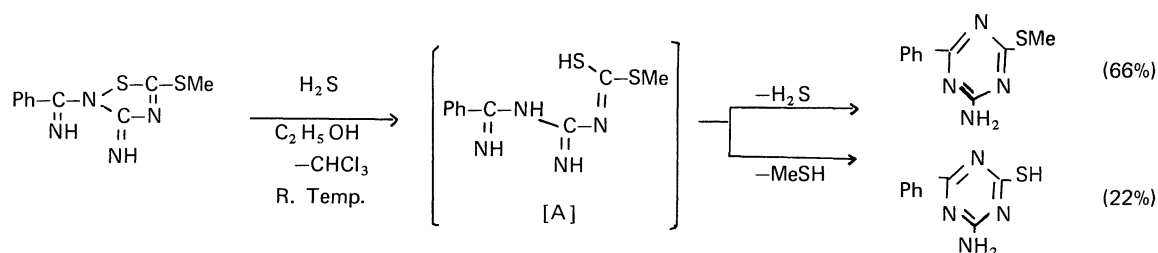


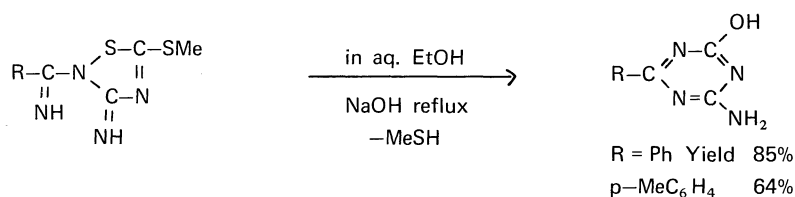
Table I. Physical properties of [I] and copper salts

R	Yield (%)	[I] Mp (°C)		UV Spectra $\lambda_{\text{max}}^{\text{H}_2\text{O}}$ ($\epsilon \times 10^{-4}$)	Copper Salt [I]. $\text{CuCl}_2(\text{H}_2\text{O})_n$		
		Free Base	Picrate		Dp (°C)	Color	n
Ph	64	138~139	192~194 (dp)	256 (3.2)	246	Yellowish green	1
p-MeC ₆ H ₄	58	181~182	204~205 (dp)	263 (3.5)	253	Green	1
PhCH ₂	57	148~149 (dp)	183~185 (dp)	247 (2.8)	172~174	Dark blue	2
CH ₃	58	155~158		243 (2.3)	—	—	—

[I] was readily cleft at the N-S link by hydrogen sulfide under a mild condition, and the elimination of methanethiol or hydrogen sulfide from intermediate [A] formed gave two kinds of s-triazines.



The ring cleavage of [I] by alkaline hydrolysis gave rise to triazine also. We found that [I] was converted into 2-amino-4-hydroxy-s-triazine with evolution of methanethiol. But the mechanism for this transformation has not yet been made clear.



The low stability of thiadiazolines seems to be related to the structure in which the aromatic character is absent.

Details will be published in our later paper.

Reference

- 1) N-Halo Compounds of Cyanamide Derivatives. II
(Part LXXXVI of "Studies of Cyanamide Derivatives")
- 2) T. Fuchigami, E. Ichikawa, and K. Odo, Bull. Chem. Soc. Japan., **46** 1765 (1973).

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