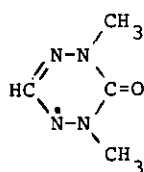
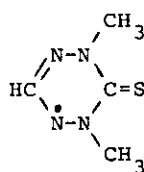
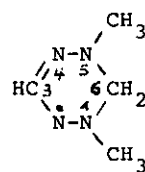
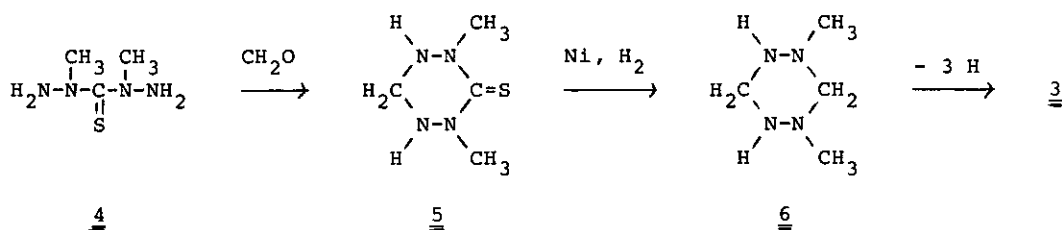


1,5-DIALKYL VERDAZYLS AND A NEW BETAINE SYSTEM

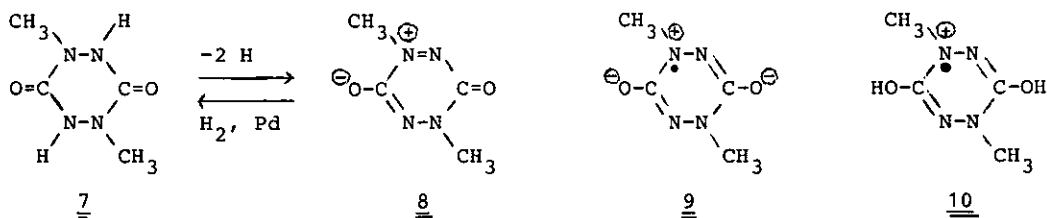
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We prepared or generated verdazyls of type 1-3 via simple synthetic routes (e. g. 4 $\rightarrow$ 5 $\rightarrow$ 2; 5 $\rightarrow$ 6 $\rightarrow$ 3). According to spectroscopic evidence (ESR, ENDOR, etc.) in 1 and 2 the hydrazidinyll system is extensively planar, whereas in 3 the 1,5-nitrogens have a nonplanar geometry.

1: m.p. 52-53°C2: m.p. 77-78°C3

In the course of these studies we found that 7 can be dehydrogenated to yield the deep blue betaine 8. 7 and 8 comproportionate in basic or acidic solution to form the corresponding radical ions 9 and 10.



In addition to the given examples we will report on chemical and physical properties of related compounds.