

## Inhibitory effect of 5-amine-6-methyluracil on 1,4-dioxane free-radical oxidation

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### Abstract

5-amine-6-methyluracil were investigated quantitatively in model system of 1,4-dioxane oxidation (60 °C). The rate constants ( $k_7$ ) of reaction of 1,4-dioxane peroxy radicals with 5-amine-6-methyluracil was measured. It is shown that its properties of radical-chain oxidation inhibitors was above, than 5-hydroxy-6-methyluracil. It was investigated effect of substituted in 1, 3 and 5-position of 5-amine-6-methyluracil on the rate constants ( $k_7$ ) at temperature 60 °C.