

S-NITROSO THIOLS: A PROMISING CLASS OF NITRIC OXIDE DONORS. THE KINETIC OF NITRIC OXIDE RELEASE

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The decomposition of RSNOs has been generally assumed to take place *via* a unimolecular mechanism through the cleavage of the weak S-N bond,¹ but a heterolytic process has been hypothesised as well.² Contrasting to the homolytic mechanism, it has been reported that the rate of disappearance of RSNOs depends on their concentration and on the presence of air.

I want to report herein results obtained from kinetic studies on the decomposition of a number of simple S-nitroso thiols, synthesised from the parent thiols and peroxy nitrite, as we recently reported,³ pointing out the effect of the concentration, the presence of dioxygen, nitric oxide and antioxidants.

References

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