

Table 2 Selected apparent second order rate constants for reaction of HO• with biological macromolecules and antioxidants

Data from [28].

Target	Apparent second order rate constant ($M^{-1}\cdot s^{-1}$)
DNA	8×10^8
RNA	1×10^9
Hyaluronan	7×10^8
Linoleic acid	9×10^9
Collagen	4×10^{11}
Albumin	8×10^{10}
Ascorbate	1×10^{10}
GSH	1.4×10^{10}
Trolox C (water-soluble analogue of α -tocopherol)	6.9×10^9

- 28 Buxton, G.V., Greenstock, C.L., Helman, W.P. and A.B., R. (1988) Critical review of rate constants for reactions of hydrated electrons, hydrogen atoms, and hydroxyl radicals ($\cdot OH/O^-$) in aqueous solution. J. Phys. Chem. Ref. Data **17**, 513–886 [CrossRef](#)