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It is much more reactive with common organic molecules than is molecular oxygen per se. In nature, singlet oxygen is commonly formed from water during photosynthesis, using the energy of sunlight. It is also produced in the troposphere by the photolysis of ozone by light of short wavelength and by the immune system as a source of active oxygen.

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Origins of Oxygen - earth's early atmosphere seems to have been mostly nitrogen from volcanic action - oxygen was initially formed by the breakdown of water by UV rays; however much of this reacted with iron, locking it up, while the hydrogen escaped earth - over billions of years, this process cost Mars and Venus their atmospheres - photosynthesis produced oxygen in sufficient quantity that it overwhelmed the iron, allowing oxygen to accumulate - the oxygen also reacted with the free ...



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