

sel curve method of Troe [1], extrapolation of our measurements with  $M \equiv \text{Ar}$ , made at pressures under 100 atm, yielded the value  $1.5 \times 10^{14} \text{ cm}^3 \text{ mol}^{-1} \text{ s}^{-1}$  for  $k_{3,00}$ . Both these determinations are at least a factor of 2 higher than the calculations of Quack and Troe [2].

1 J. Troe, *Ber. Bunsenges.*, 78 (1974) 478.

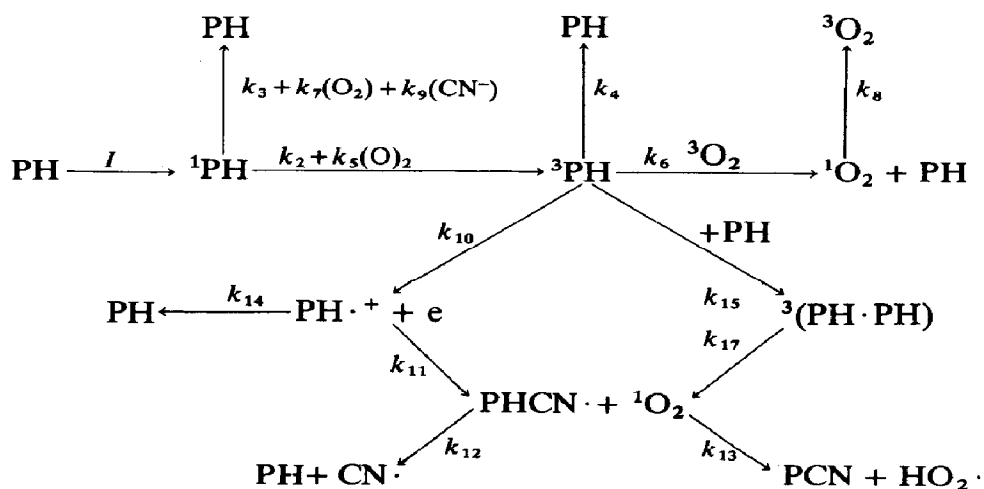
2 Quack and J. Troe, *Ber. Bunsenges. Phys. Chem.*, (1978).

### Nucleophilic photocyanation of phenanthrene in anhydrous acetonitrile containing oxygen and 18-crown-6-ether

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The following mechanism is proposed:



Values for the rate constants  $k_2 - k_8$  were found from the literature and values for the rate constants  $k_9 - k_{17}$  were calculated from experimental results.