



Figure 6. The theoretical rate of reaction (percent per hour) of various free-radical species with SO_2 is shown for a simulated sunlight-irradiated (solar zenith angle of 40°) polluted atmosphere. The initial concentrations (in ppm) were as follows: SO_2 , 0.05; NO , 0.15; NO_2 , 0.05; CO , 10; CH_4 , 1.5; CH_2O , 0; CH_3CHO , 0. The relative humidity was 50 percent, and the temperature was 25°C .

Note: The rate constants for HO_2 and CH_3O_2 radical reactions with SO_2 are not well established. See Table VII and its discussion.

Source: Calvert et al. (1978).