oxidation, dehydrogenation, ozonolysis

O 0210 32 - 075 Oxidation of 1-Methylcyclobutanol with Pb(IV) and Mn(III) Compounds. — Oxidation of 1-methylcyclobutanol (I) with lead(IV) acetate or manganese(III) acetate results in ring cleavage, producing the ketones (III)-(IV) and (VII). — (KAPUSTINA, N. I.; NIKISHIN, G. I.; Izv. Akad. Nauk, Ser. Khim. (1992) 12, 2760-2763; Inst. org. khim. im. Zelinskogo Ross. AN, Moskva 117913, Russia; RU)

$$\begin{array}{c} \text{Me} \quad \text{OH} \quad & \text{excess} \quad \text{(II)} \\ \hline \\ \text{Pb}(\text{O-Ac)}_{4}, \text{ reflux} \\ \end{array} \qquad \qquad \begin{array}{c} \text{Me} \\ \text{III} \quad 17\% \end{array}$$

$$I \xrightarrow{\text{Mn(O-Ac)}_3, \text{ Ac-OH}} \text{H}_3\text{C} \xrightarrow{\text{Me}} \text{He} \xrightarrow{\text{Ne}} \text{Me}$$

$$IV 36\% \qquad V 41\%$$

VII

a X: -CN 38% 0% b X: -SCN 58% 0% c X: -Br 62% 6%