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**Citation:**

A Desilylation and a One-Pot Desilylation-Oxidation of Aliphatic *tert*-Butyldimethylsilyl Ethers Using Catalytic Quantities of PdCl<sub>2</sub>(CH<sub>3</sub>CN)<sub>2</sub>  
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pp 2918 – 2919.

**Tables:**

**Table 1. Times and Yields for the Desilylation and Oxidation of TBDMS Ethers**

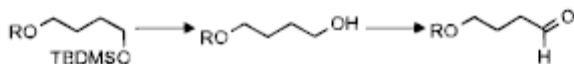
starting material	time for desilylation (h)	alcohol (% yield)	time for oxidation (h)	aldehyde or ketone (% yield) <sup>b</sup>
1. <b>8</b>	14	9 (91) <sup>a</sup>	6	<b>10</b> (86)
2. <b>11</b>	14	12 (80) <sup>a</sup>	6	13 (76)
3. <b>14</b>	16	15 (73) <sup>a</sup>	4	16 (79)
4. <b>17</b>	12	18 (82) <sup>a</sup>	10	19 (69)
5. <b>20</b>	18	21 (86) <sup>a</sup>	22	22 (80)
6. <b>23</b>	13	24 (80) <sup>c</sup>	7	25 (75)
7. <b>26</b>	16	27 (78) <sup>c</sup>	22	28 (78)
8. <b>29</b>	14	30 (78) <sup>a</sup>	20	31 (70)
9. <b>32</b>	20	33 (82) <sup>c</sup>	7 <sup>d</sup>	34 (10)

<sup>a</sup> Isolated yields using acetone, water (5 equiv), 75 °C, 6 h.

<sup>b</sup> Isolated yields using DMF:acetone (1:1), water (5 equiv), 120 °C, 9 h, and then add 10 mol % PPh<sub>3</sub>, 2-bromomesitylene (1.1 equiv).

<sup>c</sup> GC yields using the procedure in footnote <sup>b</sup> above. <sup>d</sup> Addition of another 5 mol % catalyst did not affect the yield.

**Table 2. Compatibility of the Desilylation–Oxidation Conditions with Other Protecting Groups of Alcohols**



entry	starting material	alcohol (% yield) <sup>a</sup>	aldehyde (% yield) <sup>a</sup>
1	35, R = SiEt <sub>3</sub>	36 (56)	37 (40)
2	38, R = Si( <i>i</i> -Pr) <sub>3</sub>	39 (80)	40 (70)
3	41, R = Si( <i>t</i> -Bu)Ph <sub>2</sub>	42 (81)	43 (78)
4	44, R = MOM	45 (78) <sup>b</sup>	46 (60)
5	47, R = Bn	48 (80)	49 (66)
6	50, R = THP	51 (61) <sup>b</sup>	52 (–) <sup>c</sup>
7	53, R = Ac	54 (65) <sup>b</sup>	55 (55)

<sup>a</sup> Isolated yields. <sup>b</sup> Diol was present by GC. <sup>c</sup> NMR indicated decomposition has occurred.

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