1997 alcohols

alcohols (acyclic compounds)

P 0110 13 - 053 Synthesis of 1-Docosanol. — Two alternative routes to the title compound (V), starting from palmitaldehyde are described. (V) possesses a broad spectrum of activities against lipid-enveloped viruses including HIV and influenza virus. — (DESHMUKH, M. N.; VEERESH, G.; Indian J. Chem., Sect. B: Org. Chem. Incl. Med. Chem. 35 (1996) 12, 1239-1241; Indian Inst. Chem. Technol., Hyderabad 500 007, India; EN)

$$I = \begin{array}{c} 1. \ \, \text{Ph}_{3} \overset{+}{\text{P}} - (\text{CH}_{2})_{5} - \text{COOH Br}^{-} \ \, (\text{VI}) \\ \text{BuLi, THF, -10} \ \, -> \ \, +25^{\circ}\text{C} \ \, (50\%) \\ \hline 2. \ \, \text{H}_{2}, \ \, \text{Pd}^{-}\text{C} \ \, (\text{cot.}), \ \, \text{MeOH } \ \, (86\%) \\ 3. \ \, \text{MeOH, H}_{2}\text{SO}_{4} \ \, (\text{cot.}), \ \, \text{reflux} \\ 4. \ \, \text{LiAlH}_{4}, \ \, \text{THF, } \ \, 0^{\circ}\text{C} \ \, (-) \end{array}$$