Tuberculosis is an infectious pulmonary disease caused by the bacterium *M. tuberculosis* resulting in about 1.5 million deaths per year. The hirsutellone family of natural products exhibits antimicrobial activity against *M. tuberculosis*. A partial synthesis of the decahydrofluorene core of the hirsutellones involved the following reaction.

1. Suggest two methods for performing the transformation shown above.

Reference: DOI: 10.1021/ol802768p