carboxylic acid derivatives (naphthalene compounds)

Q 0950 26 - 148 An Efficient General Synthesis of 1-Amino-2-naphthalenecarboxylic Acid Derivatives Based on a Tandem Conjugate Addition-Enolate Nitrile Coupling Sequence. — (KOBAYASHI, K.; TAKADA, K.; TANAKA, H.; UNEDA, T.; KITAMURA, T.; MORIKAWA, O.; KONISHI, H.; Chem. Lett. (1996) 1, 25-26; Dep. Mater. Sci., Fac. Eng., Tottori Univ., Koyama, Tottori 680, Japan; EN)

$$\begin{array}{c} \text{R}^{2} & \text{R}^{3} & \text{R}^{3} \\ \text{CN} & \begin{array}{c} 2 \cdot R^{2} & \text{R}^{3} \\ \end{array} & \begin{array}{c} 2 \cdot R^{3} & \text{CII} \\ \end{array} & \begin{array}{c} -78 \text{ °C} \\ \end{array} & \begin{array}{c} R^{2} & \text{R}^{3} \\ \end{array} & \begin{array}{c} \text{E: -CO-0-Et} \\ \end{array} \\ \text{III} & \begin{array}{c} \text{III} \\ \text{d R}^{1} \cdot R^{3} \cdot - \text{H : R}^{2} \cdot - \text{Me : X: -E} \\ \text{d R}^{1} \cdot R^{3} \cdot - \text{H : R}^{2} \cdot - \text{Ph : X: -E} \\ \text{d R}^{1} \cdot R^{2} \cdot - \text{Me : R}^{3} \cdot - \text{H : X: -CN} \\ \text{d R}^{1} \cdot - \text{H : R}^{2} \cdot - \text{Me : X: -E} \\ \end{array} & \begin{array}{c} \text{d R}^{3} \cdot - \text{H : R}^{2} \cdot - \text{He : X: -E} \\ \end{array} & \begin{array}{c} \text{d R}^{3} \cdot - \text{H : R}^{2} \cdot - \text{He : X: -E} \\ \end{array} & \begin{array}{c} \text{d R}^{3} \cdot - \text{He : R}^{2} \cdot - \text{He : X: -E} \\ \end{array} & \begin{array}{c} \text{d R}^{3} \cdot - \text{He : R}^{2} \cdot - \text{He : X: -E} \\ \end{array} & \begin{array}{c} \text{d R}^{3} \cdot - \text{He : R}^{2} \cdot - \text{He : X: -E} \\ \end{array} & \begin{array}{c} \text{d R}^{3} \cdot - \text{He : R}^{2} \cdot - \text{He : X: -E} \\ \end{array} & \begin{array}{c} \text{d R}^{3} \cdot - \text{He : R}^{2} \cdot - \text{He : X: -E} \\ \end{array} & \begin{array}{c} \text{d R}^{3} \cdot - \text{He : R}^{2} \cdot - \text{He : X: -E} \\ \end{array} & \begin{array}{c} \text{d R}^{3} \cdot - \text{He : R}^{2} \cdot -$$