

## Carboxylic acid esters

O 0530 10-093 Novel C-C Bond Cleavage from Arylacetonitriles in Alcohols to Aryl Carboxylic Esters Using Potassium Iodide and Catalytic Amount of Samarium. — A simple one-pot procedure for the transformation of arylacetonitriles (I) to arylcarboxylic esters (III) using the Sm/KI system is reported. With branched alcohols such as tBuOH or with 3-nitroacetonitrile and 4-methoxyacetonitrile only poor yields are obtained. ---- (YU\*, M.; WEN, W.; WANG, Z.; Synth. Commun. 36 (2006) 19-21, 2851-2857; Dep. Chem., Zhejiang Univ., Hangzhou 310027, Peop. Rep. China; Eng.) - M. Bohle

Ar—́CN . I	R−OH (II), KI, Sm (cat.)	Ar-CO-O-R	a Ar: — NO <sub>2</sub> ; R: — Me	92%
	[-> a] 25°C. [24 h]   [-> b-d] 50°C, [72 h]   III   [-> e] 25°C. [40 h]   [-> f,g] 25°C. [72 h]	b Ar: ———————NO <sub>2</sub> ; R: —iPr	76%	
			c Ar: ───────NO <sub>2</sub> ; R: ──tBu	5% (GC)
			d Ar: —Ph; R: —Me	14% (GC)
			e Ar: — CI ; R: — Et	60%
			f Ar: ───────────────────────────────────	2%
			g Ar: — 💭 👌 ; R: — Me	38%
			NO <sub>2</sub>	