Molecules **1999**, *4*, M100

Methyl 2-Benzyl-3-phenyl-2-(phenylsulfonyl)propanoate

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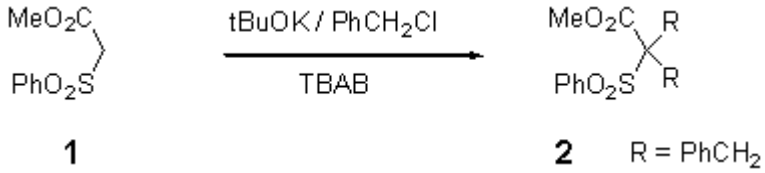
Received: 28 June 1999 / Accepted: 2 July 1999 / Published: 20 August 1999



1 **2** R = $PhCH_2$

The product **2** was prepared from methyl phenylsulfonyl acetate *in situ* by the solid-liquid PTC conditions without solvent [1-2]. To ester **1** (0.535 g, 2.5 mmol), was added benzyl chloride (0.791 g, 6.25 mmol), ^{t}BuOK (0.701 g, 6.25 mmol) and 10 % of TBAB (tetrabutylammonium bromide) phase transfer catalyst (80 mg, 0.25 mmol). The reaction was carried out under ambient temperature with magnetic agitation during 1 min. An approximate temperature of 95°C was measured at the end of the reaction. The mixture was allowed to cool to ambient temperature. After dilution with ethyl acetate (30 ml) and subsequent filtration through Florisil™, the organic product was analysed by GC (using an internal standard) and purified by chromatography on silica gel (pentane: ethyl acetate, 95 : 5), yield: 88 % of isolated product **2**.

^{1}H NMR ($CDCl_3$): 3.48 (s, 4H); 3.68 (s, 3H); 7.10-7.23 (m, 10H); 7.48-7.82 (m, 5H).

^{13}C NMR ($CDCl_3$): 165 (ester).

IR (Nujol): 1740 (CO_2); 1310 and 1140 cm^{-1} (SO_2).

MS (IC-NH_3, m / z): 412 (M^+ + 18) / 29.3 %; 272 (M^+ - $PhSO_2$ + 18) / 100%.

References

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Sample Availability: Available from the authors.