Molecules **1999**, *4*, M99

Methyl 2-Octyl-2-(phenylsulfonyl)decanoate

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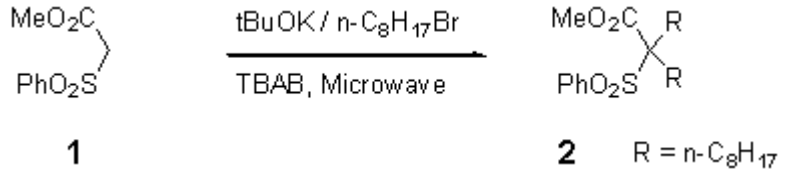
Received: 28 June 1999 / Accepted: 2 July 1999 / Published: 20 August 1999



1 **2** R = n-C_8H_{17}

The product **2** was prepared from methyl phenylsulfonyl acetate *in situ* by the solid-liquid PTC conditions without solvent [1-2]. A mixture of the ester **1** (0.535 g, 2.5 mmol), n-octyl bromide (1.206 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) was placed in a pyrex tube which was then introduced into a Maxidigest MX 350 Prolabo microwave monomode reactor fitted with a rotational system. An approximate temperature of 120 °C was measured at the end of the irradiation time (13 min with 140 w as irradiation power). The mixture was allowed to cool to ambient temperature. After dilution with ethyl acetate (30 ml) and subsequent filtration through Florisil^{TM}, the organic product was analysed by GC (using an internal standard) and purified by chromatography on silica gel (pentane : ethyl acetate, 95:5), yield: 86 % of **2**, viscous and colourless.

^{1}H NMR ($CDCl_3$): 0.83-0.84 (t, 6H); 1.15-1.4 (m, 28H); 3.62 (s, 3H); 7.5-7.85 (m, 5H).

^{13}C NMR ($CDCl_3$): 168 (ester).

IR (Nujol): 1740 (CO_2); 1310 and 1150 cm^{-1} (SO_2).

MS (IC-NH_3, m / z): 456 (M^+ + 18) / 100 %.

References

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Sample Availability: Available from the authors.