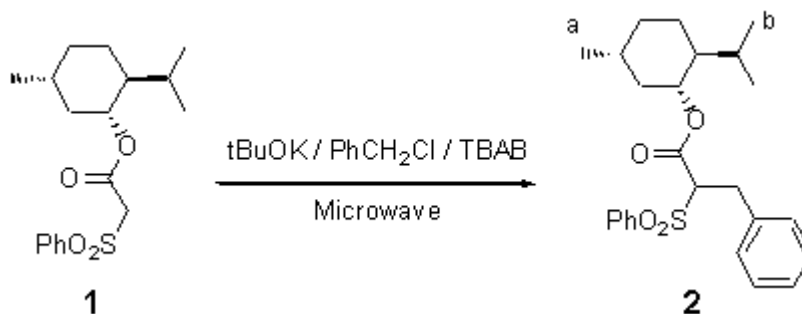


Menthyl 2-Benzyl-2-phenylsulfonyl Acetate

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The product **2** was prepared from menthyl phenylsulfonyl acetate *in situ* by the solid-liquid PTC conditions without solvent. A mixture of ester **1** (2.5 mmol, 0.845 g), benzyl chloride (6.25 mmol, 0.79 g), tBuOK (6.25 mmol, 0.70 g) and tetrabutyl ammonium bromide (TBAB) (0.25 mmol, 0.080 g) was placed in a Pyrex tube which was then introduced into a Maxidigest MX 350 Prolabo microwave[1] monomode reactor fitted with a rotational system. An approximate final temperature (150 °C) was measured by introducing a digital thermometer at the end of the irradiation time (20 min on 150W as irradiation power). The mixture was cooled to ambient temperature. After dilution with ethyl acetate (30 ml) and subsequent filtration through Florisil, the organic product was purified by chromatography on silica (pentane:ethyl acetate, 90:10), to give **2** as a colourless liquid in 75% yield. No diastereoisomers were detected.

¹H-NMR (CDCl₃, 200 MHz): 8-7.55 (m, 5H, PhSO₂); 7.3-7.1 (m, 5H, PhCH₂); 4.55-4.4 (dt, 1H, CH-O); 4.3-4.18 (dd, 1H, CH-C=O); 0.95-0.78 (m, 6H, J = 7.2 Hz, 2(CH₃)_b); 0.75-0.62 (d, 3H, J = 7.2 Hz, (CH₃)_a).

¹³C-NMR (CDCl₃, 50 MHz): 165 (ester); 135, 130 and 129 (C_{arom}); 78 (CH); 31 (CH₃).

IR: 1740 cm⁻¹ (C=O); 1340 and 1130 (SO₂).

MS (IC-NH₃, m/z): 370 (M⁺ + 18 - C₆H₄, 100 %).

Reference

1. Yuliang, W.; Yaozhong, J. *Synth. Commun.* **1992**, *22*, 2287-2291.

Sample Availability: Available from the authors.

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