

Benzophenone. ^1H NMR (CDCl_3 , 400 MHz, 25°C)

δ 7.82 (d, $J_{\text{HH}}=8.2\text{Hz}$, 4H), 7.61 (m, 2H), 7.50 (t, $J_{\text{HH}}=7.6\text{ Hz}$, 4H)

phenyl(*p*-tolyl)methanone. ^1H NMR (CDCl_3 , 400 MHz, 25°C)

δ 7.78 (d, $J_{\text{HH}}=7.2\text{Hz}$, 2H), 7.72 (d, $J_{\text{HH}}=8.0\text{Hz}$, 2H), 7.57 (t, $J_{\text{HH}}=7.4\text{ Hz}$, 1H), 7.53 (t, $J_{\text{HH}}=7.8\text{Hz}$, 2H),
7.28 (d, $J_{\text{HH}}=8.0\text{Hz}$, 2H), 2.43 (s, 3H)

(4-methoxyphenyl)(phenyl)methanone. ^1H NMR (CDCl_3 , 400 MHz, 25°C)

δ 7.81 (d, $J_{\text{HH}}=7.2\text{Hz}$, 2H), 7.74 (d, $J_{\text{HH}}=5.2\text{Hz}$, 2H), 7.54 (t, $J_{\text{HH}}=7.2\text{ Hz}$, 1H), 7.44 (t, $J_{\text{HH}}=7.4\text{Hz}$, 2H),
6.96 (d, $J_{\text{HH}}=7.6\text{Hz}$, 2H), 3.86 (s, 3H)

(4-chlorophenyl)(phenyl)methanone. ^1H NMR (CDCl_3 , 400 MHz, 25°C)

δ 7.77 (m, 4H), 7.61 (m, 1H), 7.49 (m, 4H),