## Supporting information

Given below are NMR characterization data for the compounds used in the study "Behaviour of asphaltene model compounds at W/O interfaces". The structures can be found in Figure 1. <sup>1</sup>H NMR spectra were recorded on a Bruker Advance DPX 300 MHz spectrometer. An appropriate amount was dissolved in CDCl<sub>3</sub> (99.8 atom % D) containing 0.05% (v/v) tetrametylsilane (TMS) as an internal standard and the peak of TMS was calibrated to 0.00 ppm. For PAP, 1 drop of *d*<sub>6</sub>-DMSO (99.9 atom % D) was added to increase solubilisation.

**C5Pe**:  $\delta$  8.58 (2H, *s*, br., arom.),  $\delta$  8.52 (2H, *d*, arom.,  ${}^{3}J_{ortho} = 8.1$  Hz),  $\delta$  8.45 (2H, *d*, arom.,  ${}^{3}J_{ortho} = 8.1$  Hz),  $\delta$  8.40 (2H, *d*, arom.,  ${}^{3}J_{ortho} = 8.1$  Hz),  $\delta$  5.18 (1H, *m*, NCHCH<sub>2</sub>),  $\delta$  4.18 (2H, *t*, NCH<sub>2</sub>),  $\delta$  2.25 (2H, *m*, NCH(CH<sub>2</sub>)<sub>a</sub>),  $\delta$  2.0 – 1.0 (26H, *m*, alkyl+ NCH(CH<sub>2</sub>)<sub>b</sub>),  $\delta$  0.86 (6H, *t*,  ${}^{3}J_{H-H} = 6.9$  Hz).

**PAP**:  $\delta$  8.46 (2H, *s*, br., arom.),  $\delta$  8.30 (2H, *d*, arom.,  ${}^{3}J_{ortho} = 8.1$  Hz),  $\delta$  8.27 (2H, *d*, arom.,  ${}^{3}J_{ortho} = 8.1$  Hz),  $\delta$  8.27 (2H, *d*, arom.,  ${}^{3}J_{ortho} = 8.1$  Hz),  $\delta$  7.08 (2H, *d*, Ph.,  ${}^{3}J_{ortho} = 6.9$  Hz),  $\delta$  7.01 (2H, *t*, Ph.,  ${}^{3}J_{ortho} = 7.2$  Hz),  $\delta$  6.92 (1H, *d*, Ph.,  ${}^{3}J_{ortho} = 7.2$  Hz),  $\delta$  5.91 (H, *dd*, PhCH<sub>2</sub>*CH*N,  ${}^{3}J_{H-H} = 10.2$  Hz, 5.4 Hz),  $\delta$  5.05 (1H, *m*, NCH-alkyl),  $\delta$  3.60 (1H, *dd*, Ph-CH<sub>2a</sub>,  ${}^{2}J_{H-H} = 14.4$  Hz,  ${}^{3}J_{H-H} = 5.4$  Hz),  $\delta$  3.45 (1H, *dd*, Ph-CH<sub>2b</sub>,  ${}^{2}J_{H-H} = 14.4$  Hz,  ${}^{3}J_{H-H} = 10.2$  Hz),  $\delta$  3.45 (1H, *dd*, Ph-CH<sub>2b</sub>,  ${}^{2}J_{H-H} = 14.4$  Hz,  ${}^{3}J_{H-H} = 10.2$  Hz),  $\delta$  3.45 (1H, *dd*, Ph-CH<sub>2b</sub>,  ${}^{2}J_{H-H} = 14.4$  Hz,  ${}^{3}J_{H-H} = 10.2$  Hz),  $\delta$  3.45 (1H, *dd*, Ph-CH<sub>2b</sub>,  ${}^{2}J_{H-H} = 14.4$  Hz,  ${}^{3}J_{H-H} = 10.2$  Hz),  $\delta$  3.45 (1H, *dd*, Ph-CH<sub>2b</sub>,  ${}^{2}J_{H-H} = 14.4$  Hz,  ${}^{3}J_{H-H} = 10.2$  Hz),  $\delta$  3.45 (1H, *dd*, Ph-CH<sub>2b</sub>,  ${}^{2}J_{H-H} = 14.4$  Hz,  ${}^{3}J_{H-H} = 10.2$  Hz),  $\delta$  3.45 (1H, *dd*, Ph-CH<sub>2b</sub>,  ${}^{2}J_{H-H} = 14.4$  Hz,  ${}^{3}J_{H-H} = 10.2$  Hz),  $\delta$  3.45 (1H, *dd*, Ph-CH<sub>2b</sub>,  ${}^{2}J_{H-H} = 14.4$  Hz,  ${}^{3}J_{H-H} = 10.2$  Hz),  $\delta$  3.45 (2H, *m*, CH<sub>2</sub>-alkyl),  $\delta$  1.3 – 1.0 (16H, *m*, alkyl),  $\delta$  0.72 (6H, *t*,  ${}^{3}J_{H-H} = 6.9$  Hz).

**BisA:** 8.70 – 8.56 (8H, br., arom.),  $\delta$  5.18 (2H, *m*, NCHCH<sub>2</sub>),  $\delta$  2.25 (4H, *m*, NCH(CH<sub>2</sub>)<sub>a</sub>),  $\delta$  1.87 (4H, *m*, NCH(CH<sub>2</sub>)<sub>b</sub>),  $\delta$  1.4 – 1.1 (32H, *m*, alkyl),  $\delta$  0.83 (12H, *t*, <sup>3</sup>*J*<sub>*H*-*H*</sub> = 6.9 Hz).