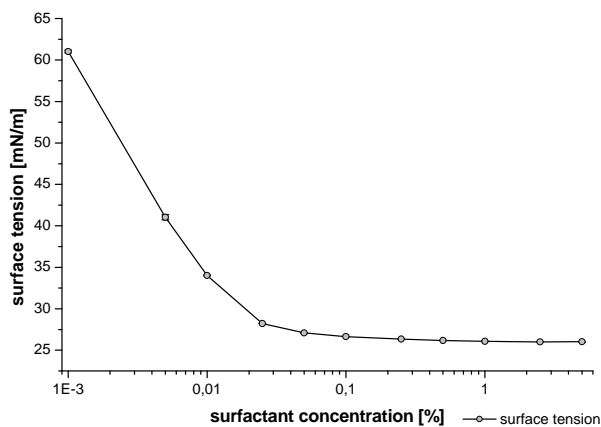


PFG-NMR Self Diffusion Measurements in the Single Phase Channels of a Microemulsion System with an Anionic/Nonionic Surfactant Mixture

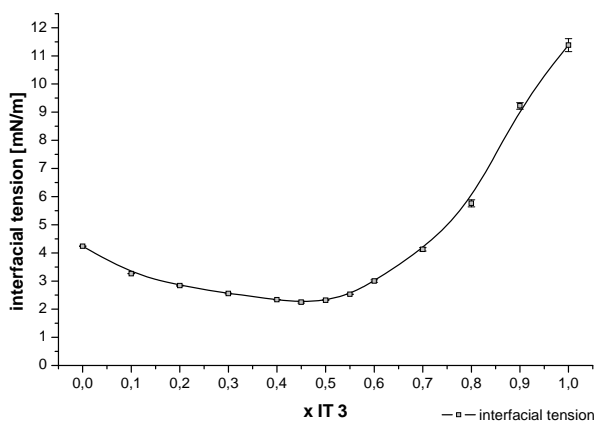
Lukas Wolf, Heinz Hoffmann, Jürgen Linders, Christian Mayer

Supporting Information

Surface and Interfacial Tension Measurements

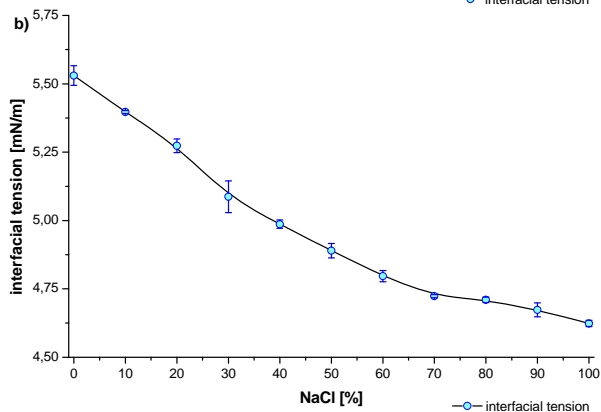
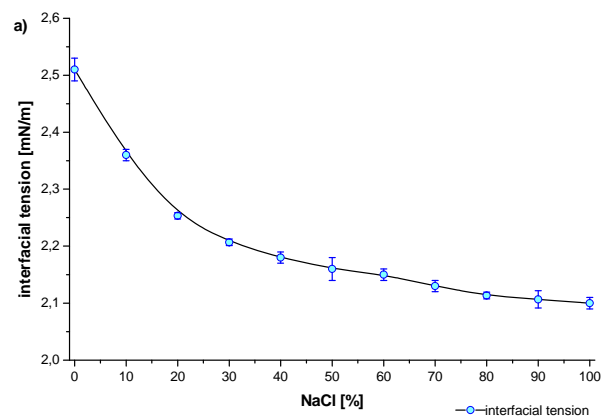


SI 1 Surface tension of the surfactant mixture Mg(DS)₂-IT 3 at a surfactant ratio of 1/1 (w/w) with increasing total surfactant concentration at 25 °C. CMC ~ 0,025% surfactant.



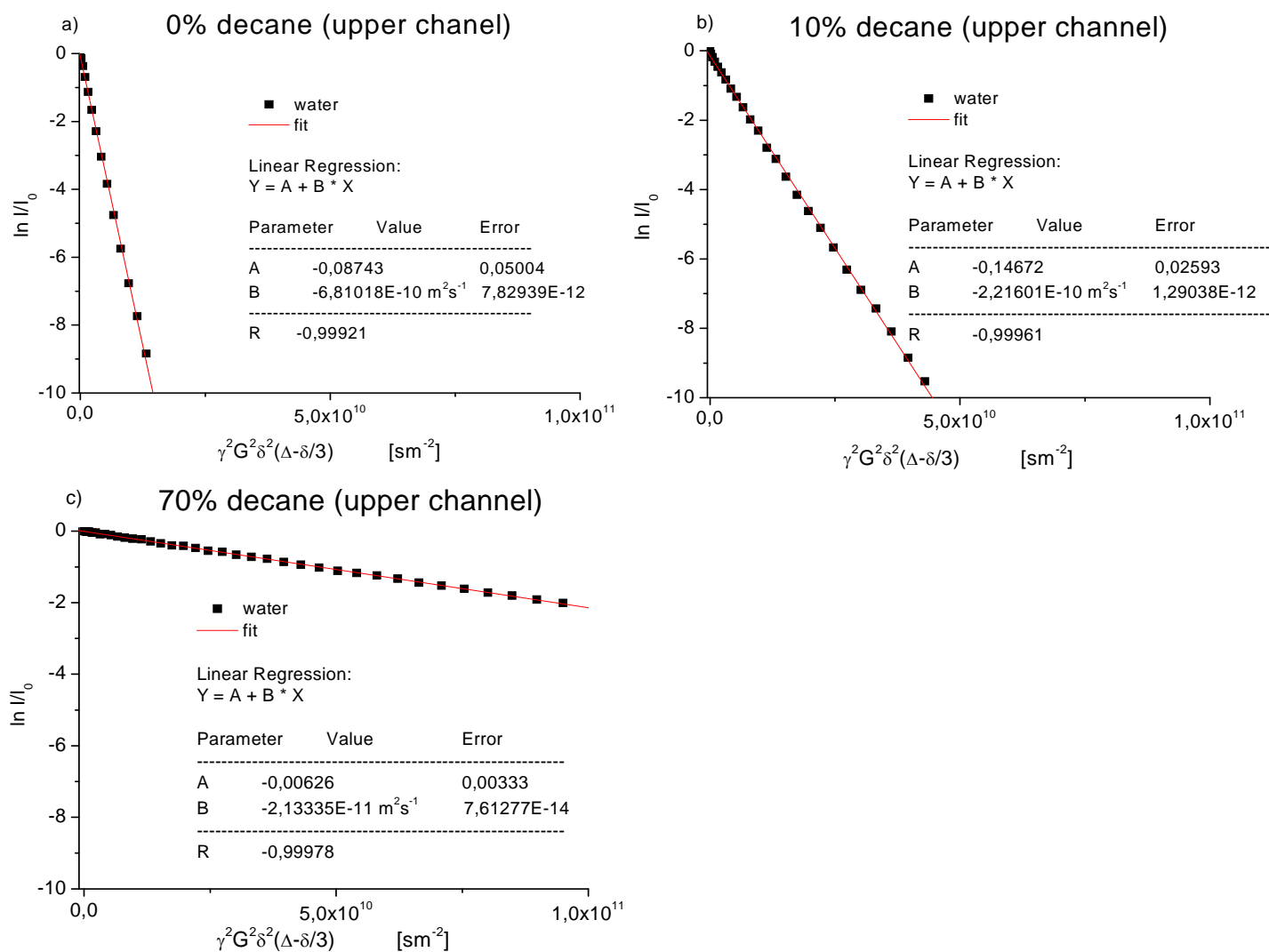
SI 2 Interfacial tension of Mg(DS)₂-IT 3 with increasing mass fraction x IT 3 in the surfactant mixture against the oil decane. Surfactant concentration constant at 0,5%, measured at 25 °C.

Influence of Salt to the System



SI 3 interfacial tension of the surfactant mixtures against decane with increasing amount of NaCl. Surfactant concentration constant at 0,5% in the aqueous phase. 100% NaCl corresponds to a molar ratio of Mg(DS)₂:NaCl = 1:1. a) interfacial tension at x IT 3 = 0,5, b) interfacial tension at x IT 3 = 0,8.

Examples for PFG-NMR data fitted with eq. (1):



SI 4 Example fit functions for water at upper channel.