Synthesis of [Ru(dmso)₄Cl₂]

- 1. Flush 25 ml of dried DMSO until it is free of Oxygene (flushing period ~10 min)
- 2. Add 3 g RuCl₃·xH₂O
- 3. The dark red to black suspension is heated up to 170 °C under a continuous Ar flow
- 4. The solution is kept at this temperature for 10 15 min until it becomes yellow-orange
- 5. The solution is slowly cooled down to RT and poured into 40 ml dried Aceton.
- 6. The yellow μ -crystalline product is filtered off after it has been precipitated and then dried in air.

M = 484.50 g/mol

FT-IR spectrum of [Ru(dmso)₄Cl₂]

