

## Complex formation equilibrium / equilibrium constant

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### Principle

Many metals, in particular transition elements, can form complexes with charged or neutral ligands. Complex formation reactions are equilibrium reactions. The stability of these complexes is described by the complex formation constant.

### Benefits

- Stable and safe construction due to solid stand material
- High quality glassware for good results

### Tasks

Determine the number of ligands of the silver amine complex with a precipitation titration from a silver salt solution.

### Learning objectives

- Complex formation
- Chemical equilibrium
- Equilibrium constant

### Necessary accessories

- Precision balance 620g/0.001g

## Scope of delivery

Burette, lateral stopcock, Schellbach, 25 ml	MAU-24022021	1
Burette clamp, roller mount., 2 pl.	37720-00	1
Retort stand, h = 750 mm	37694-00	1
Magnetic stirrer without heating, 3 ltr., 230 V	35761-99	1
Magnetic stirring bar 30 mm, cylindrical	46299-02	2
Graduated pipette 25 ml	36602-00	1
Volumetric pipette, 50 ml	36577-00	1
Volumetric pipette, 50 ml	36578-00	1
Volumetric pipette, 50 ml	36579-00	2
Pipettor	36592-00	1
Pipette dish	36589-00	1
Erlenmeyerkolben, Boro, wide neck	46152-00	5
Volumetric flask, Borosilicate, 100 ml, IGJ12/21	36548-00	4
Volumetric flask, Borosilicate, 100 ml, IGJ12/21	36550-00	3
Funnel, glass, top dia. 50 mm	34457-00	3
Weighing dishes, square shape, 84 x 84 x 24 mm, 500 pcs.	45019-50	1
Spoon, special steel	33398-00	1
Wash bottle, plastic, 500 ml	33931-00	1
Pasteur pipettes, 250 pcs	36590-00	1
Rubber caps, 10 pcs	39275-03	1
Silver nitrate, cryst. 25 g	30222-04	1
Potassium bromide, 100 g	30258-10	1
Ammonia solution, 25% 1000 ml	30933-70	1
Water, distilled 5 l	31246-81	1