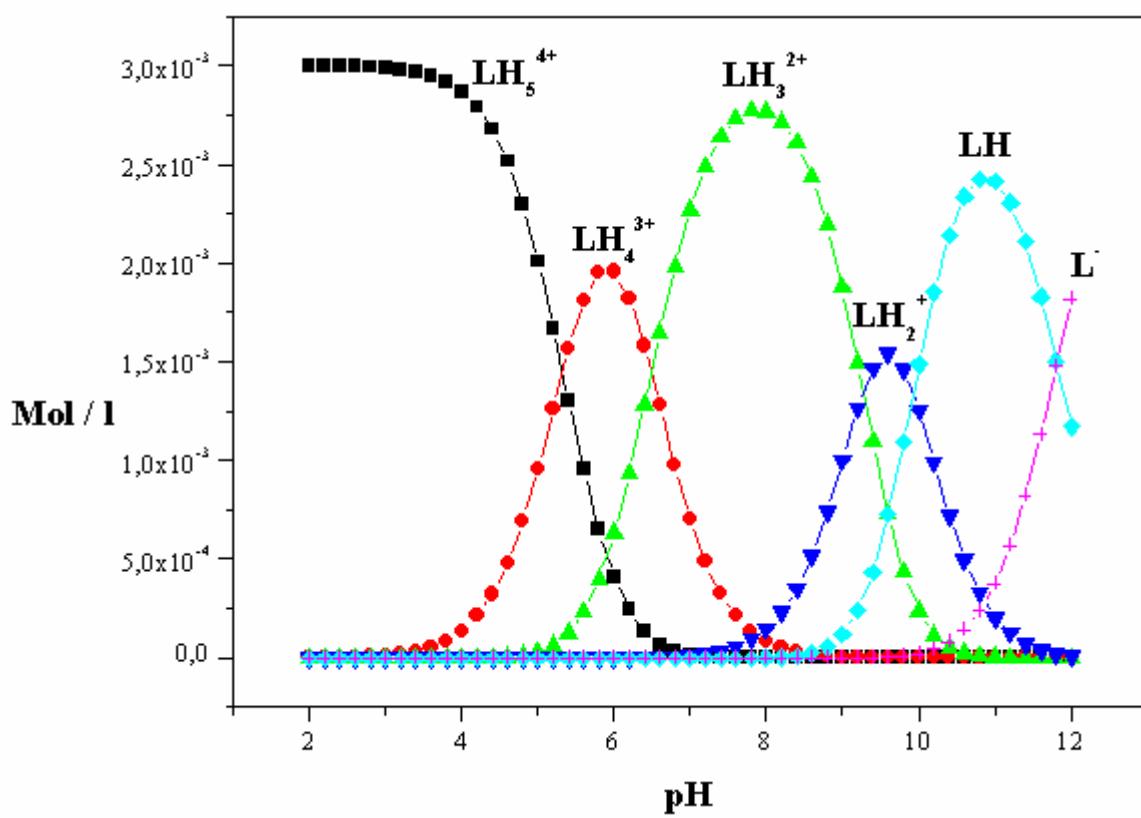
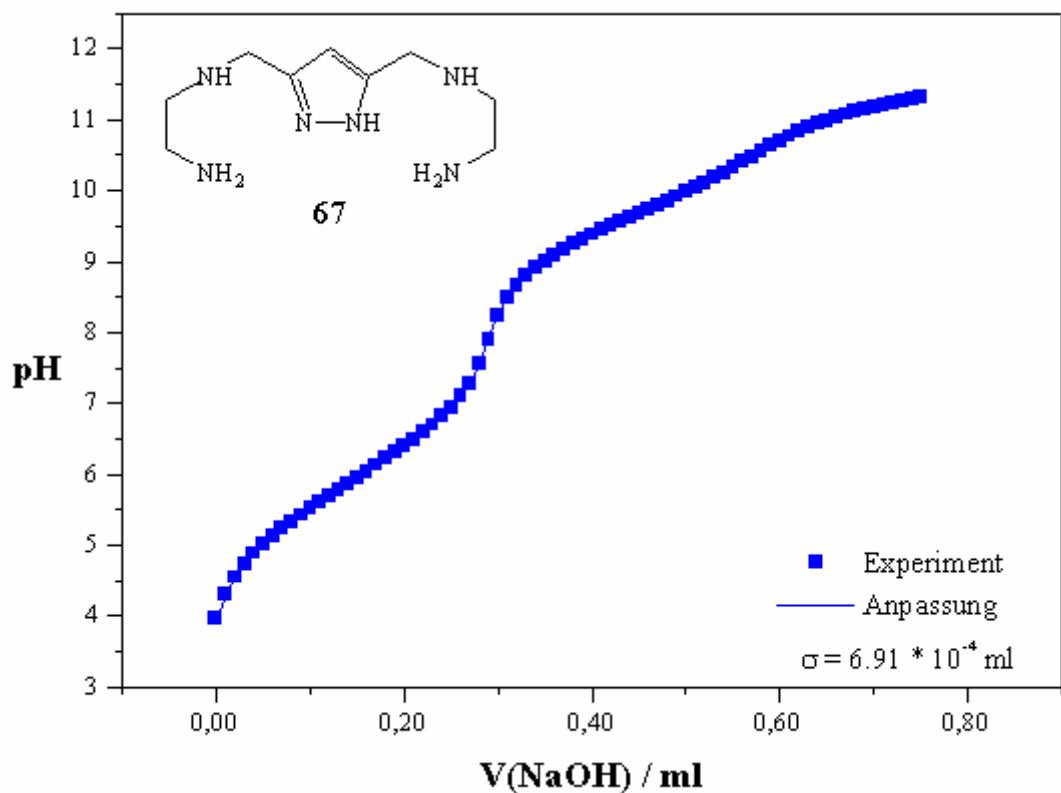
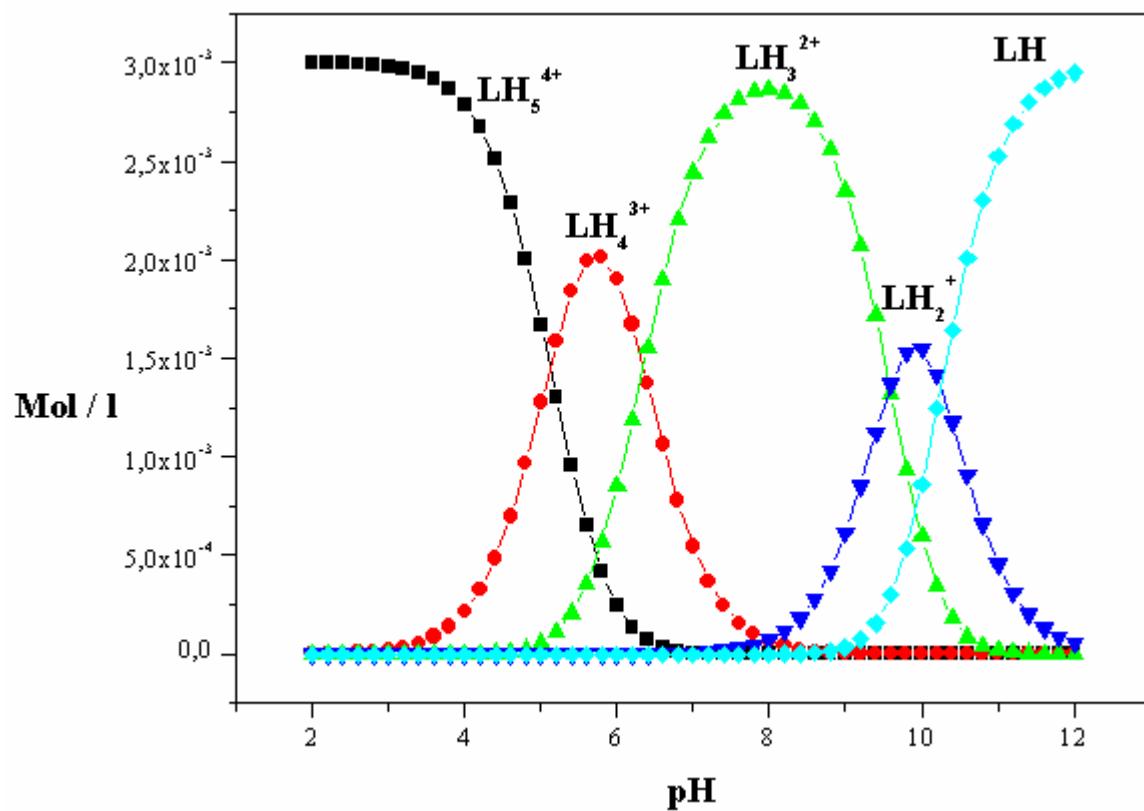
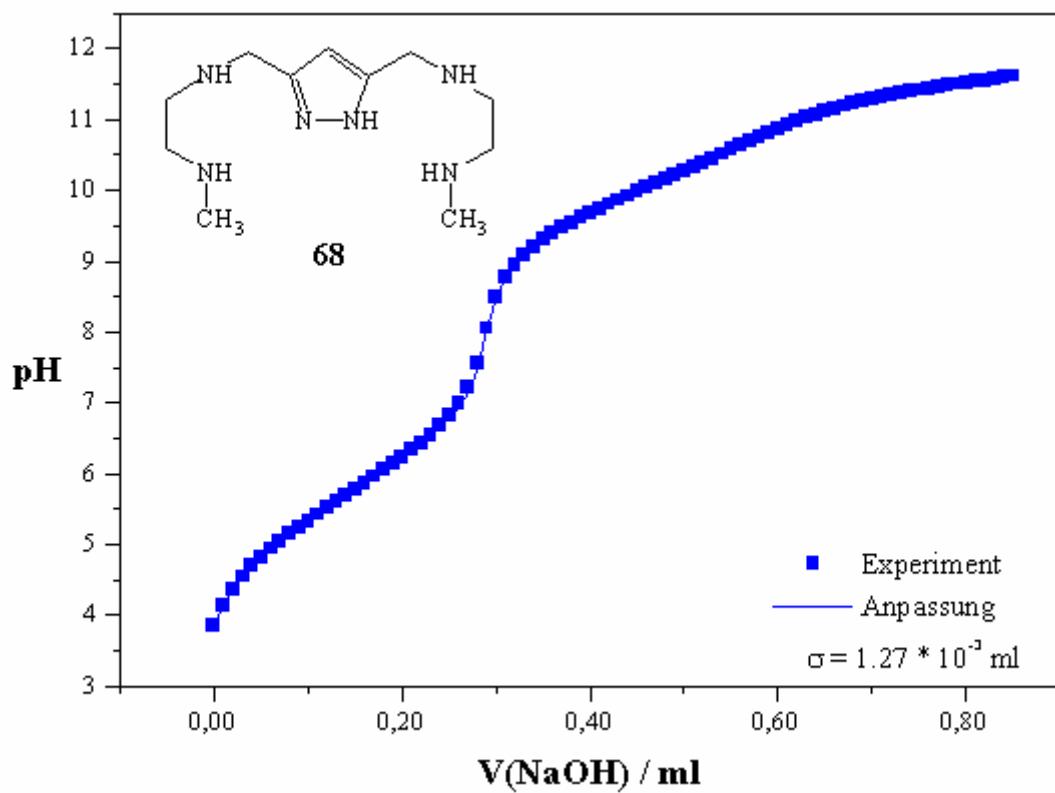


Supplementary Material:

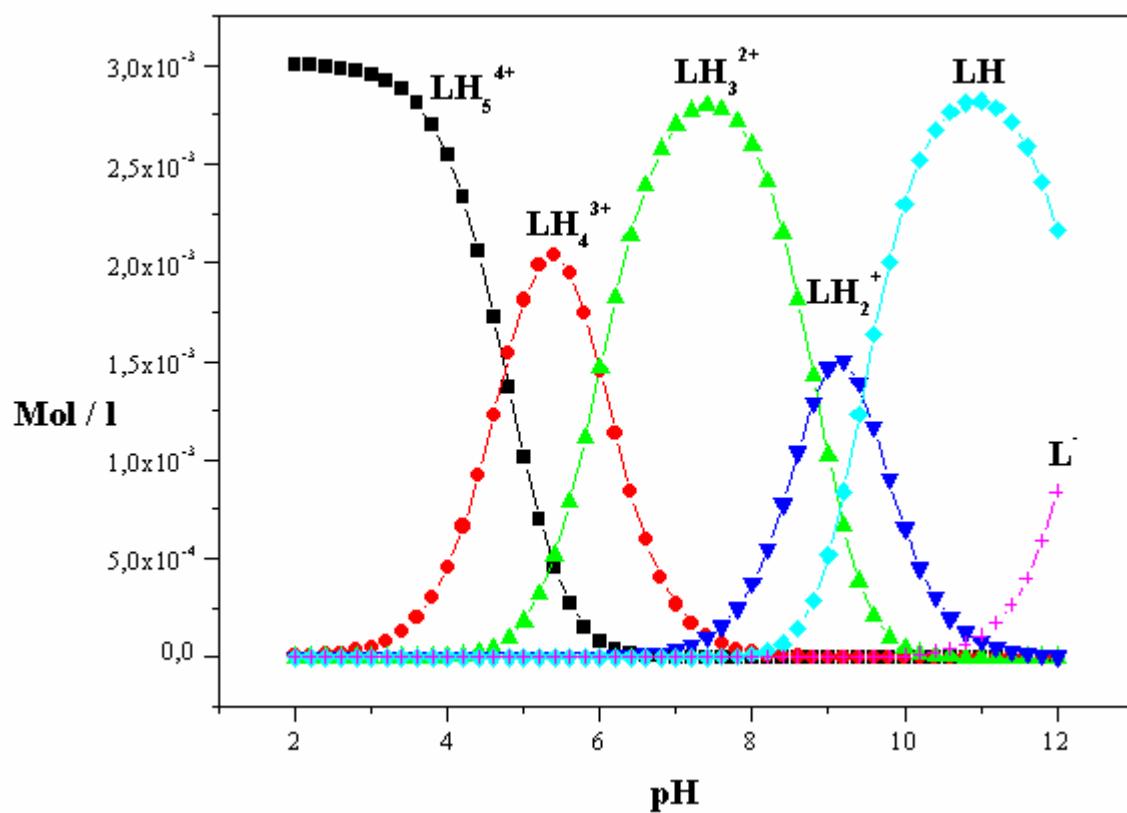
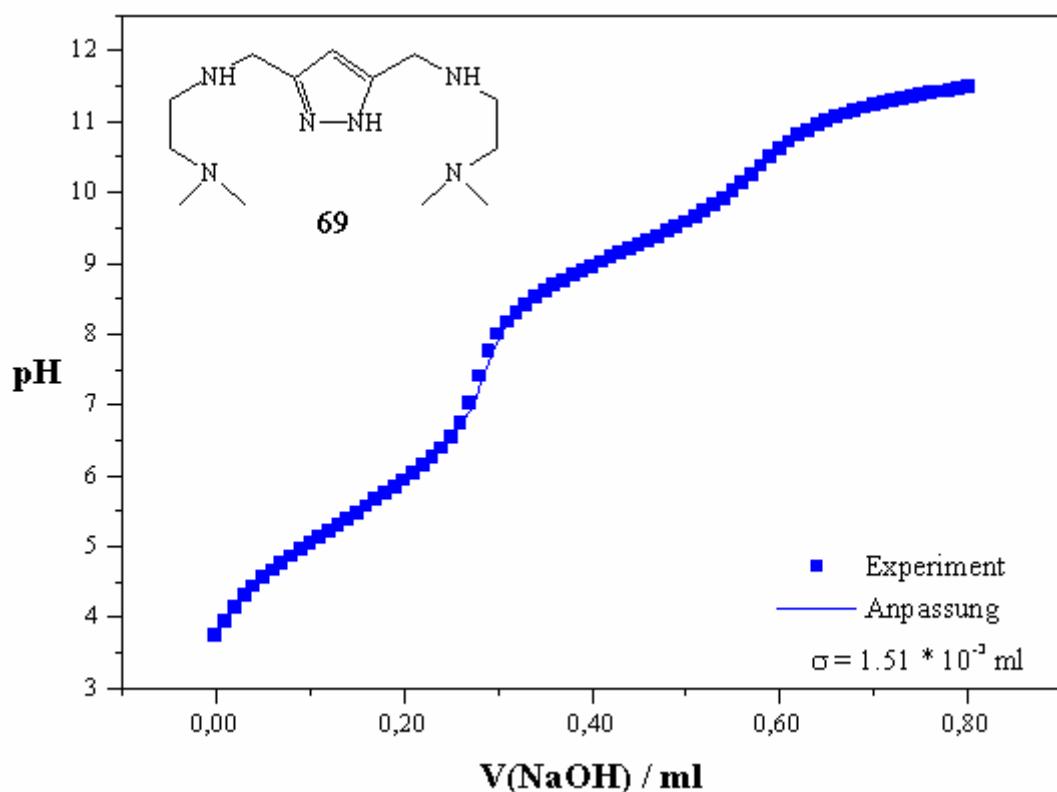
Titration curves of the ligands and of their Cu²⁺ (Zn²⁺) complexes



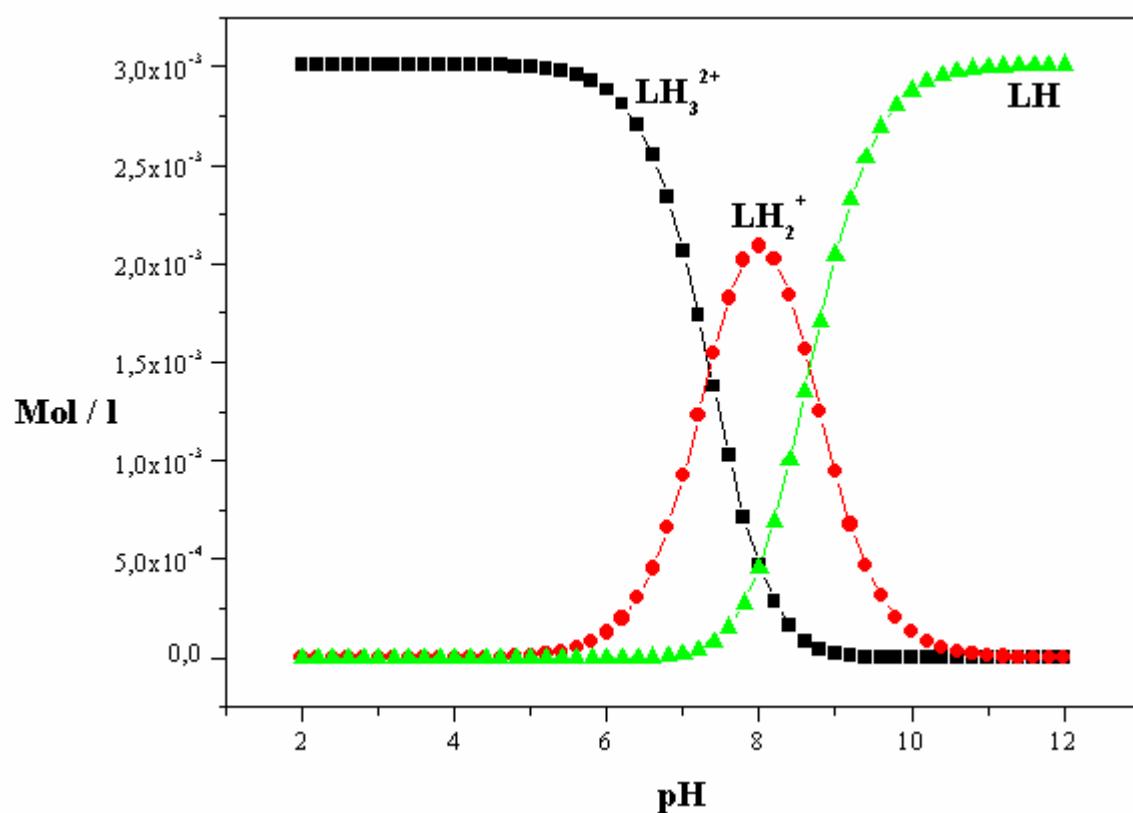
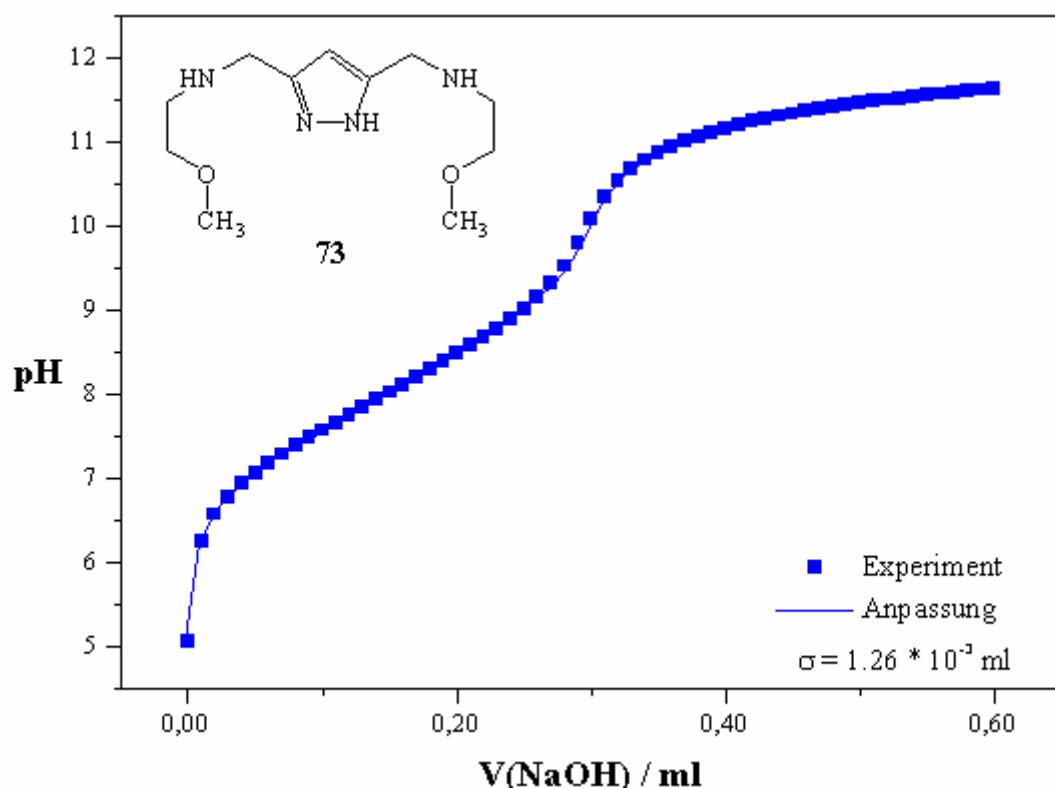
Titration curve (top) and species distribution (below) of ligand **19**, $[\text{L}] = 3.0 \cdot 10^{-3} \text{ M}$.



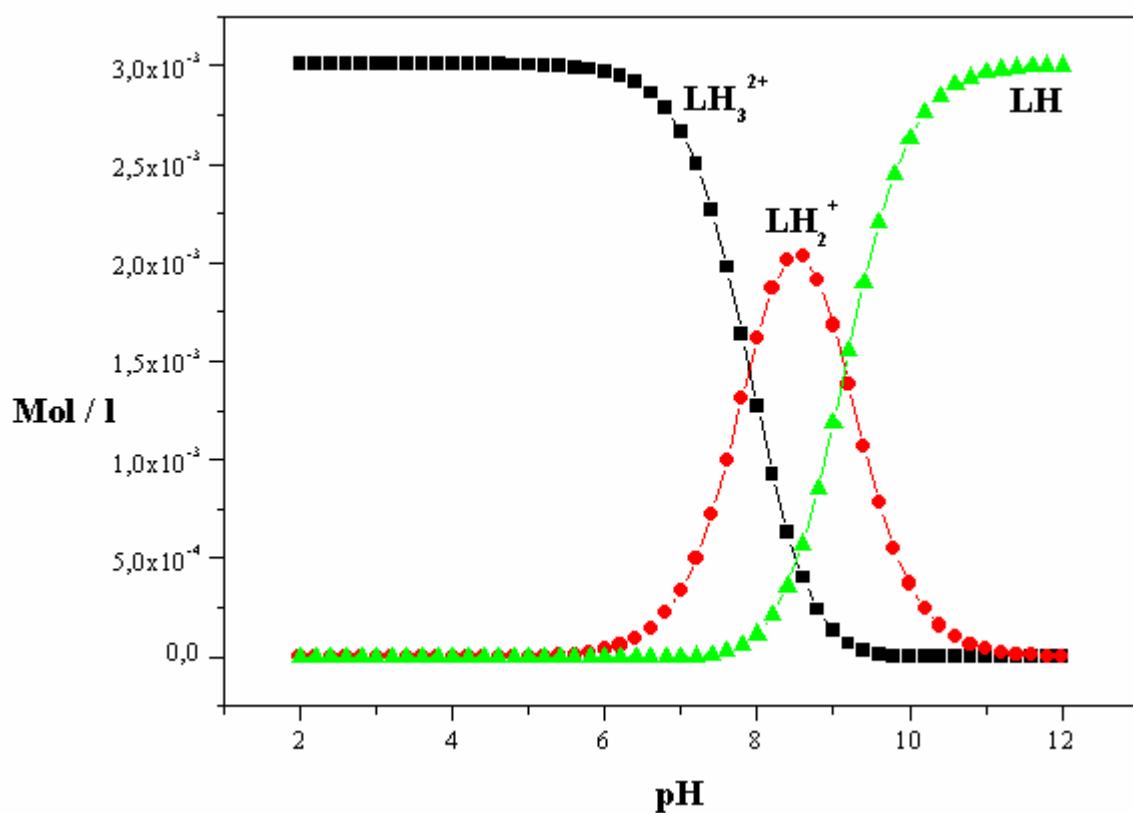
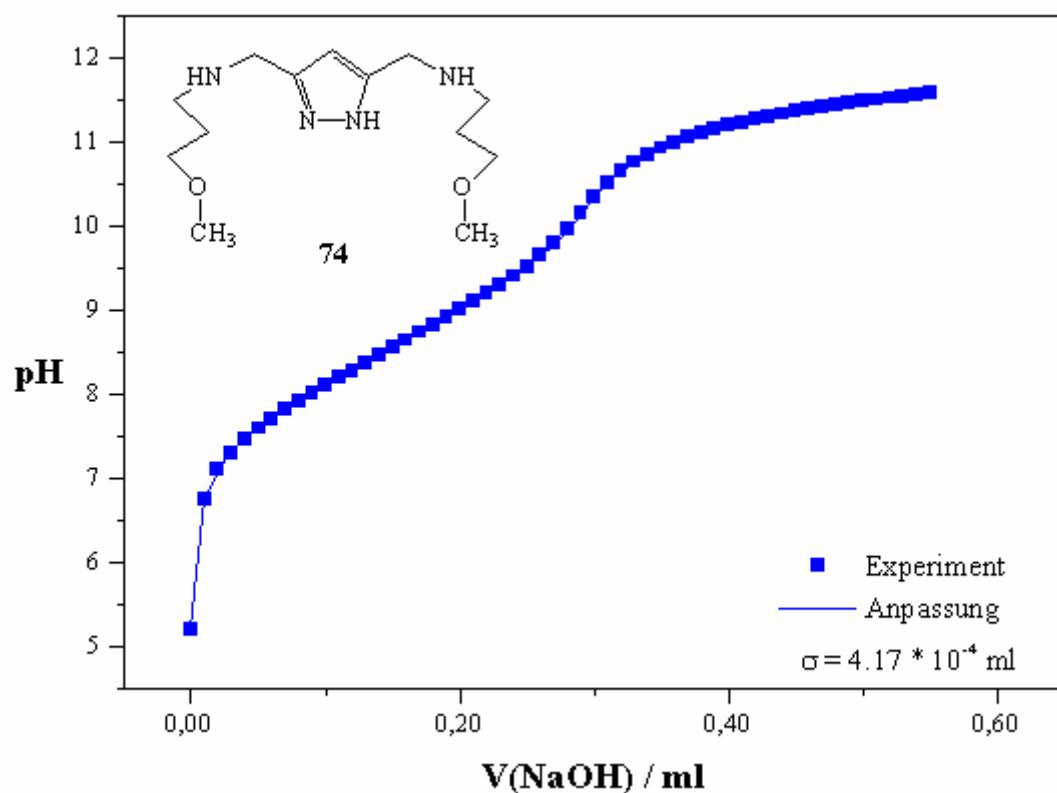
Titration curve (top) and species distribution (below) of ligand **18**, $[L] = 3.0 \cdot 10^{-3} \text{ M}$.



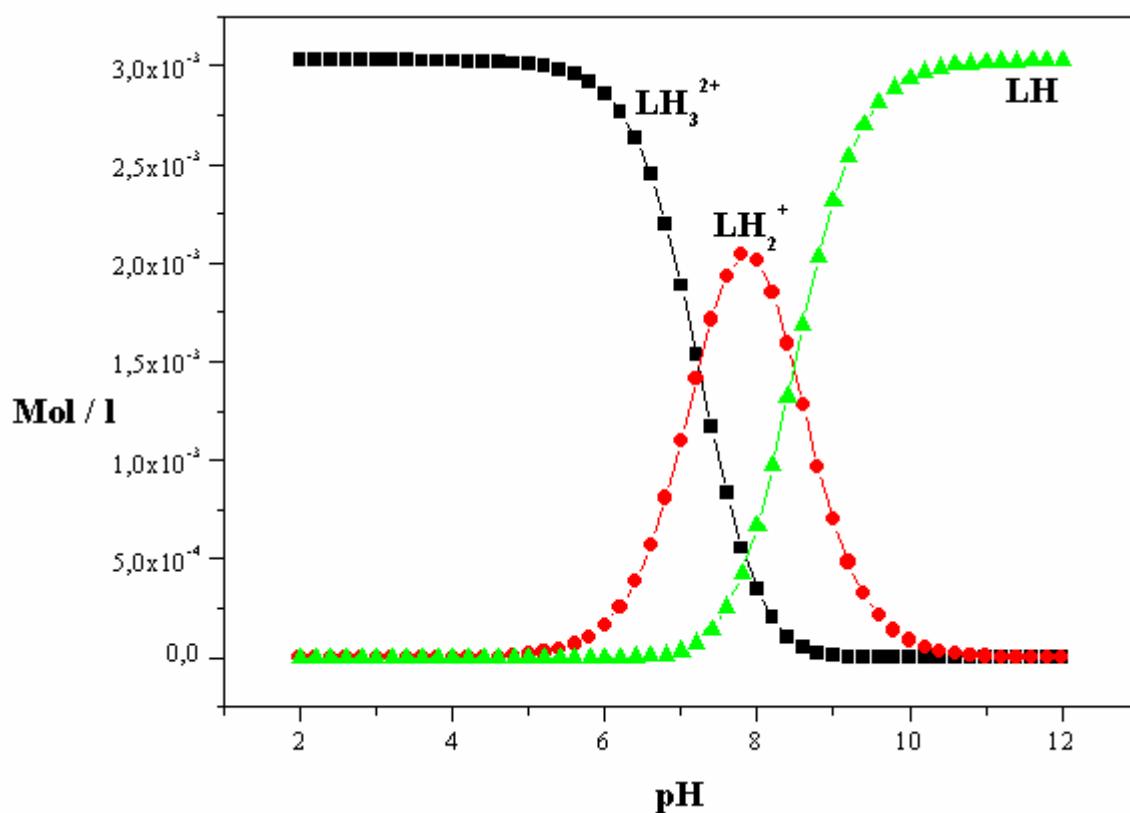
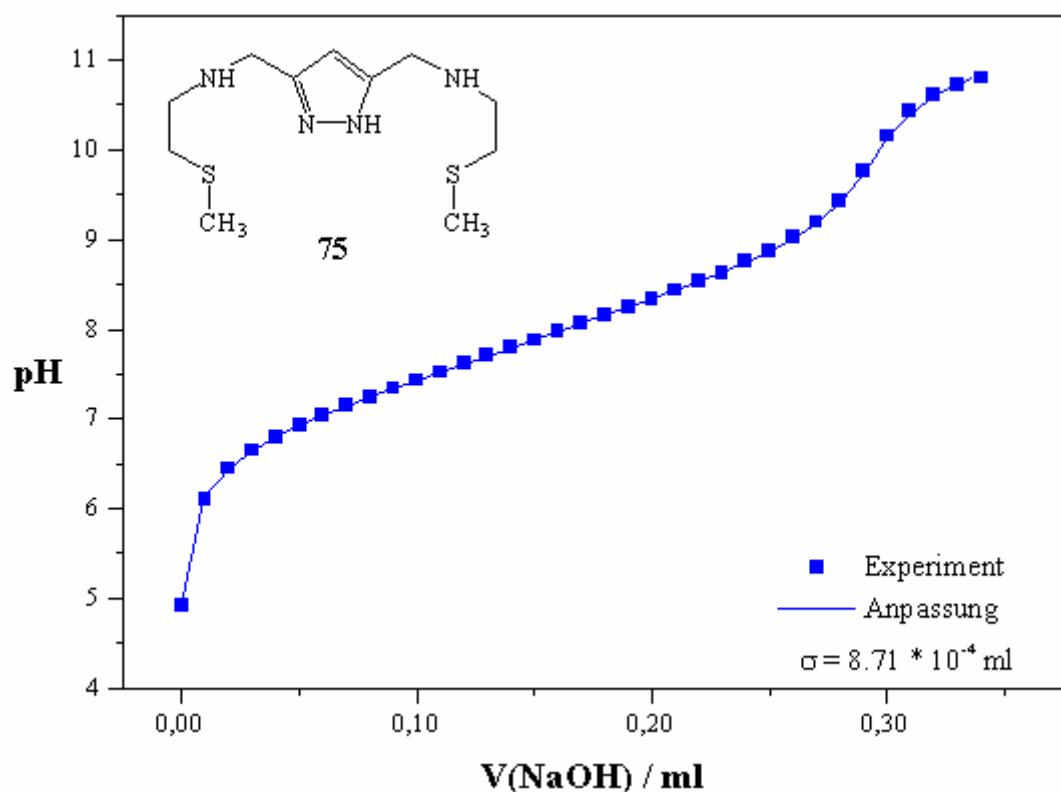
Titration curve (top) and species distribution (below) of ligand **16**, $[L] = 3.0 \cdot 10^{-3}$ M.



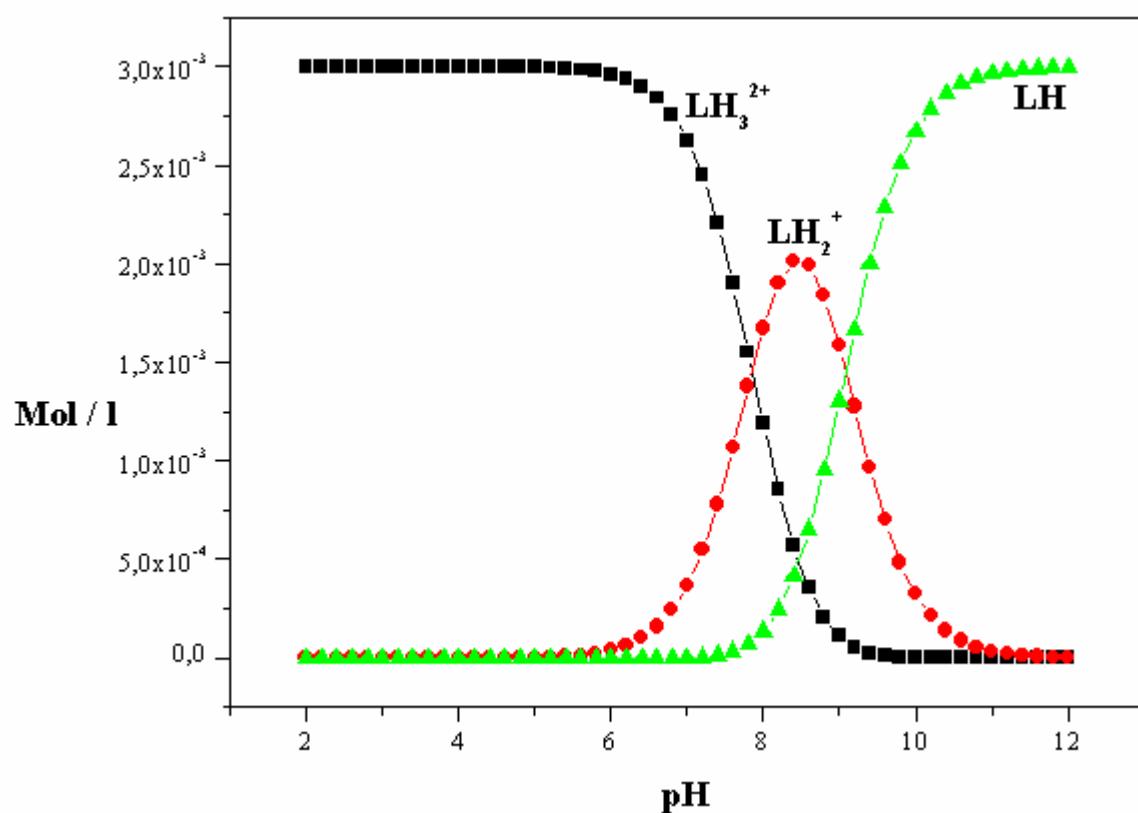
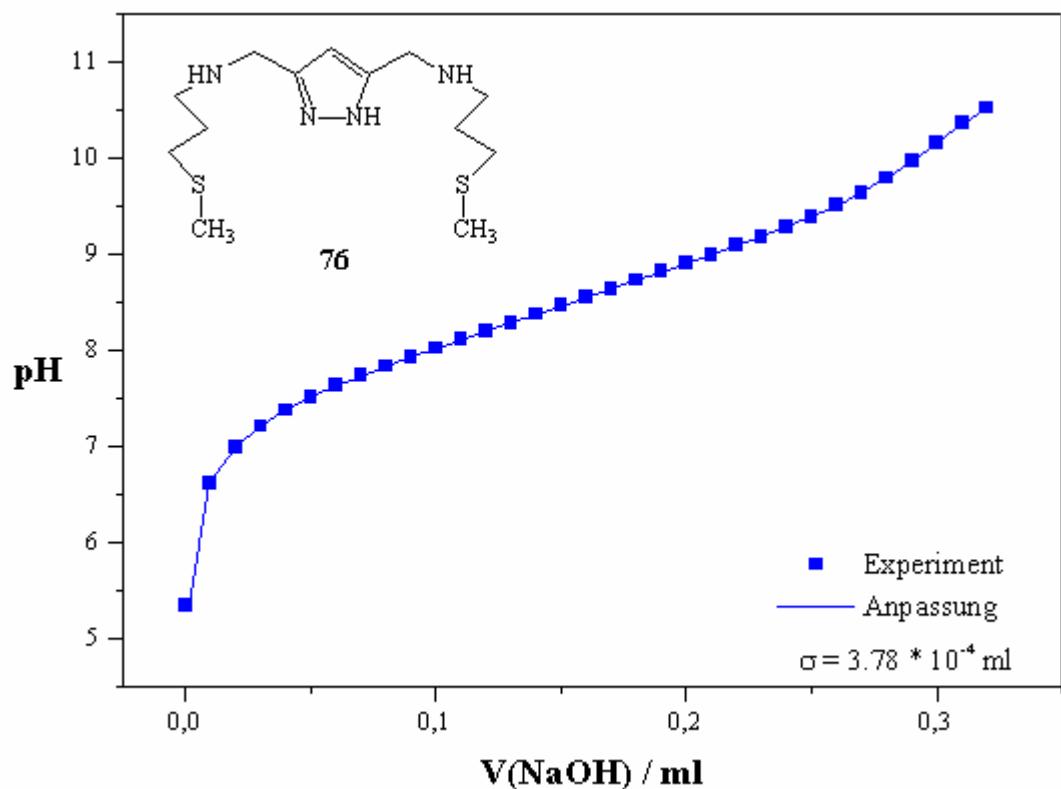
Titration curve (top) and species distribution (below) of ligand **20**, $[L] = 3.0 \cdot 10^{-3} \text{ M}$.



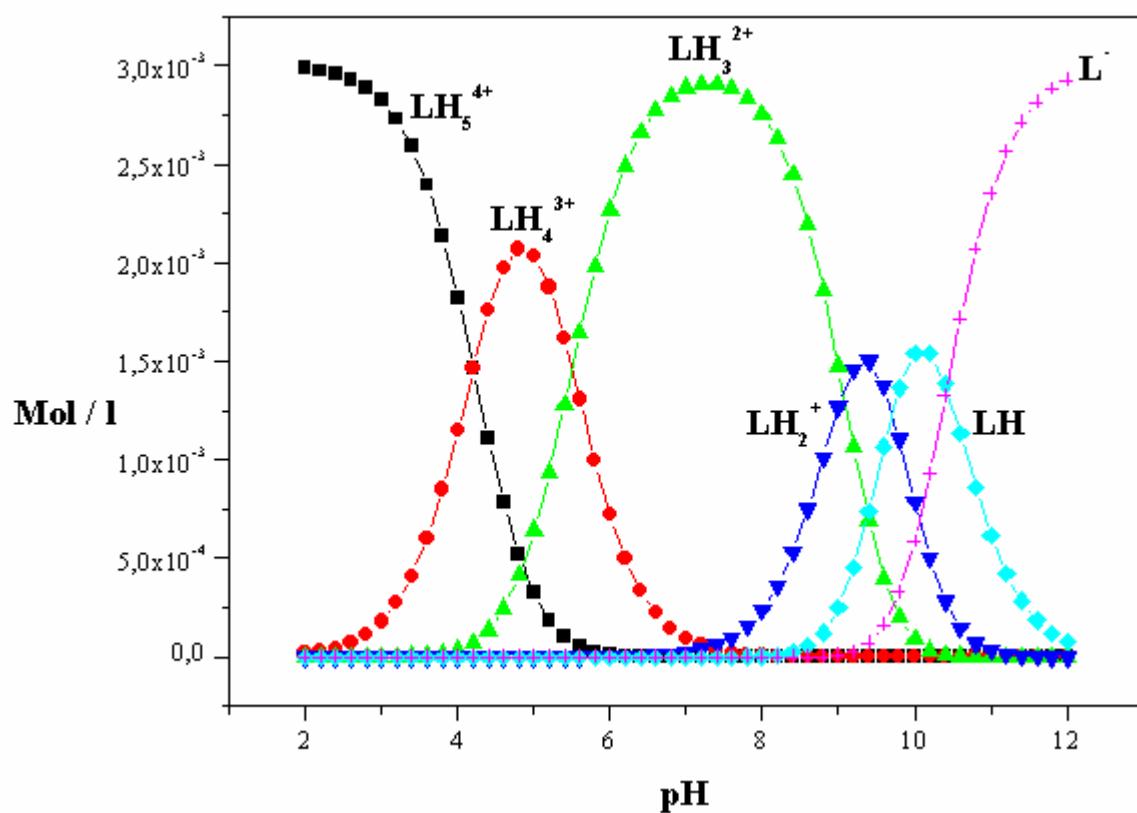
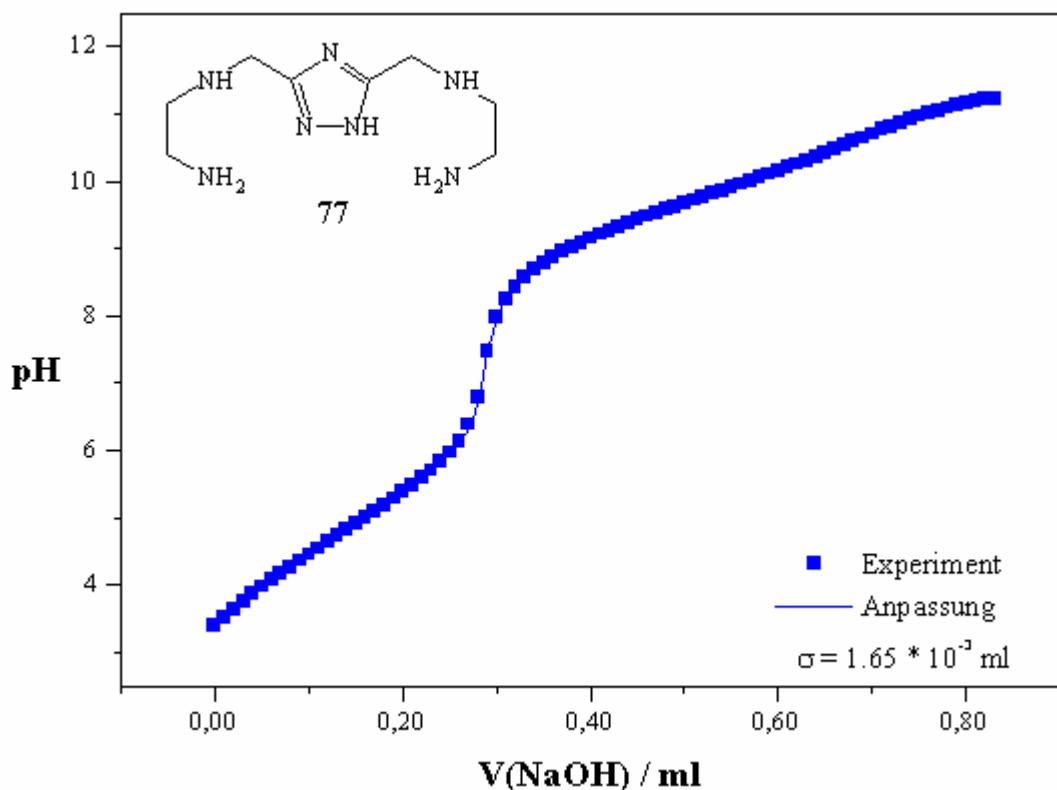
Titration curve (top) and species distribution (below) of ligand **21**, $[L] = 3.0 \cdot 10^{-3} \text{ M}$.



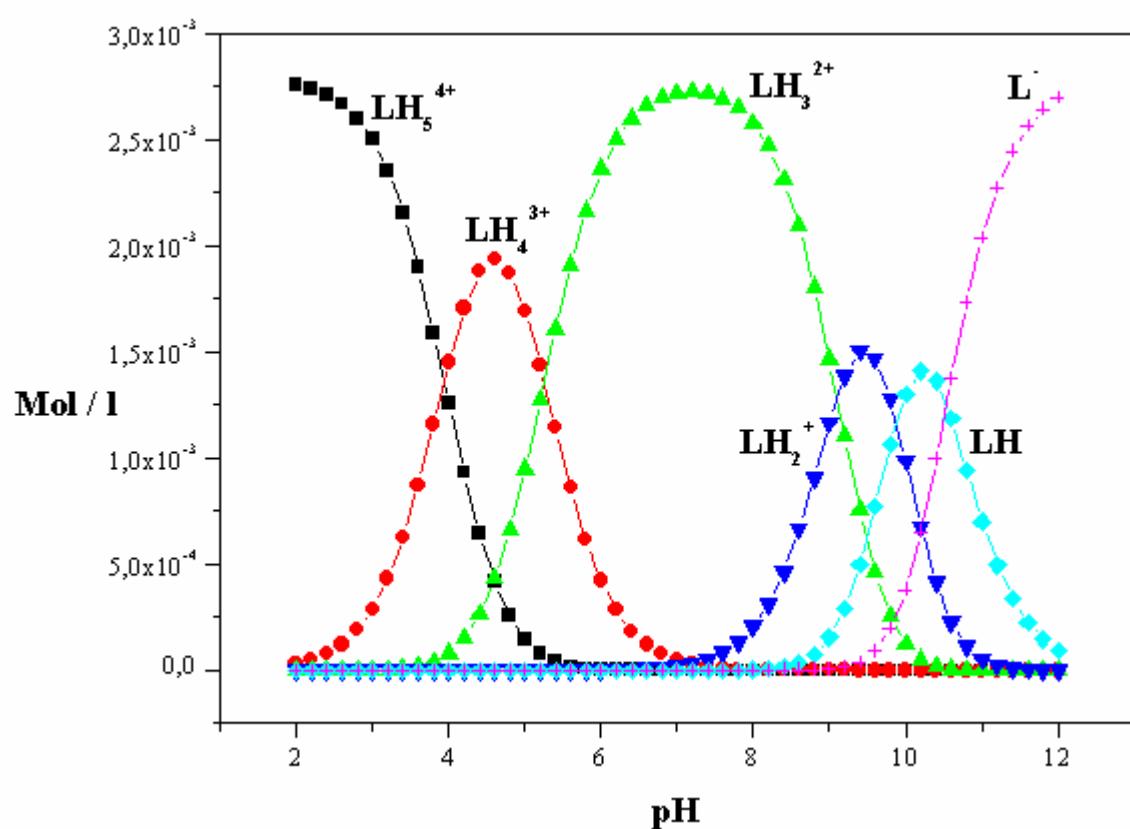
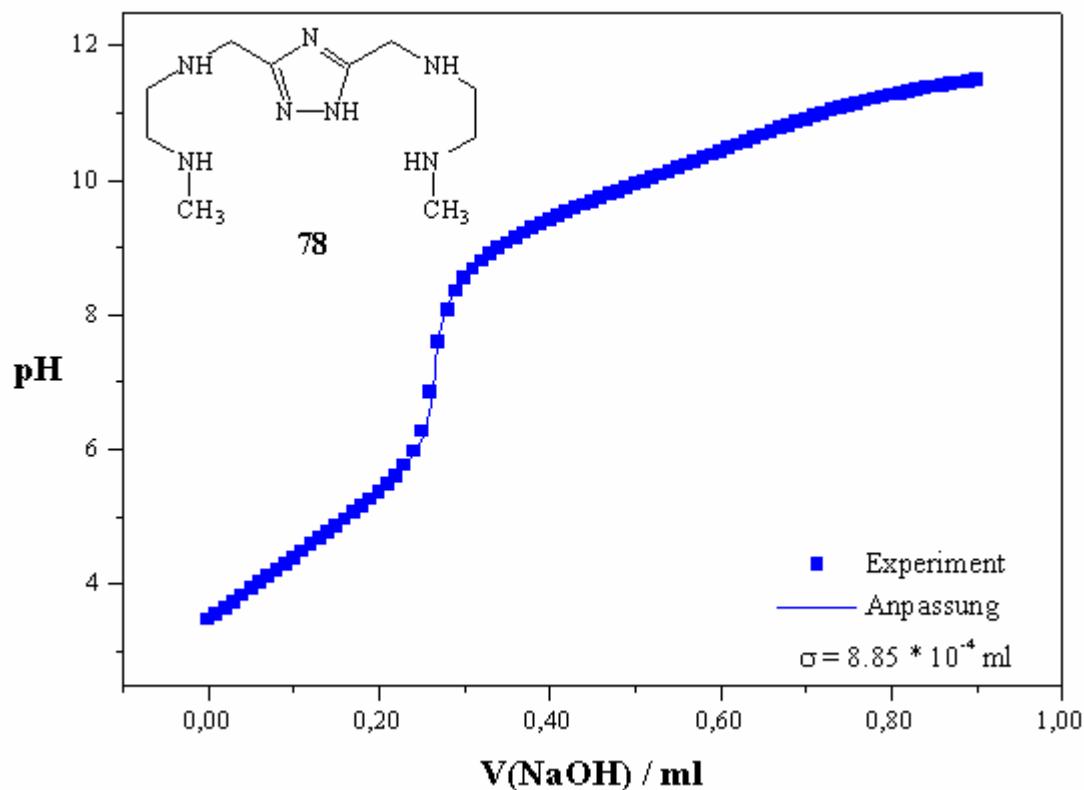
Titration curve (top) and species distribution (below) of ligand **24**, $[L] = 3.0 \cdot 10^{-3}$ M.



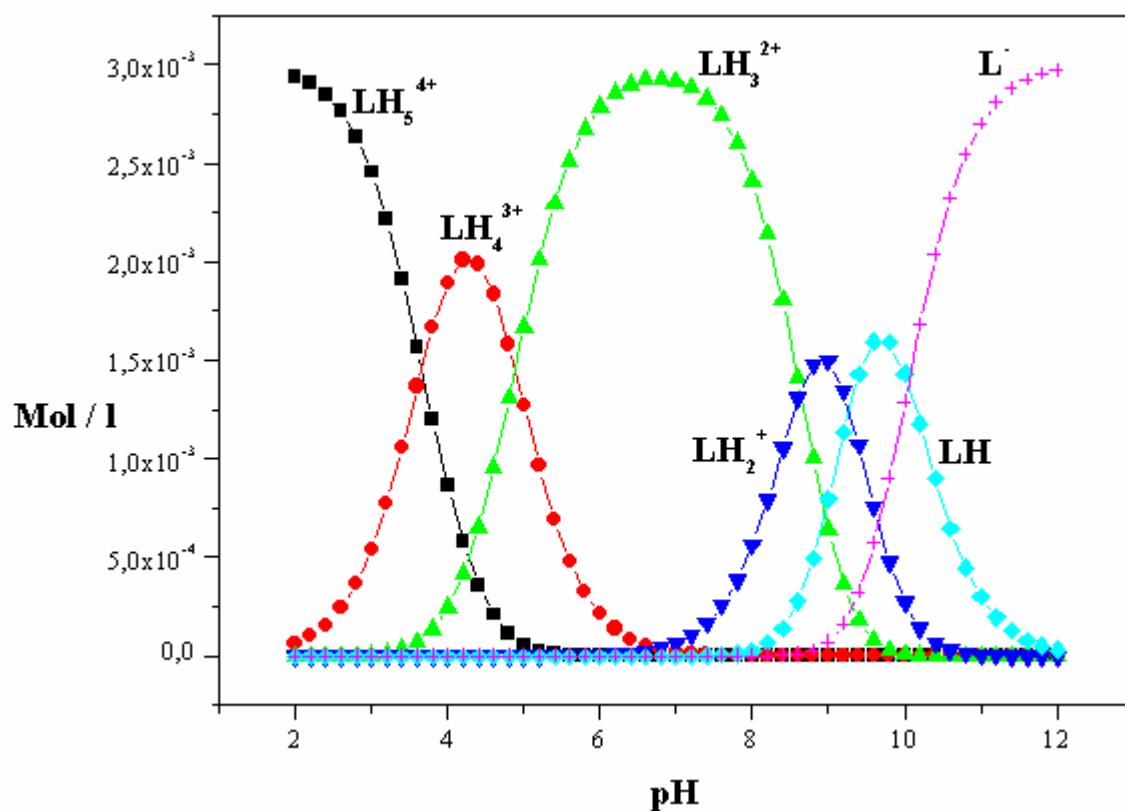
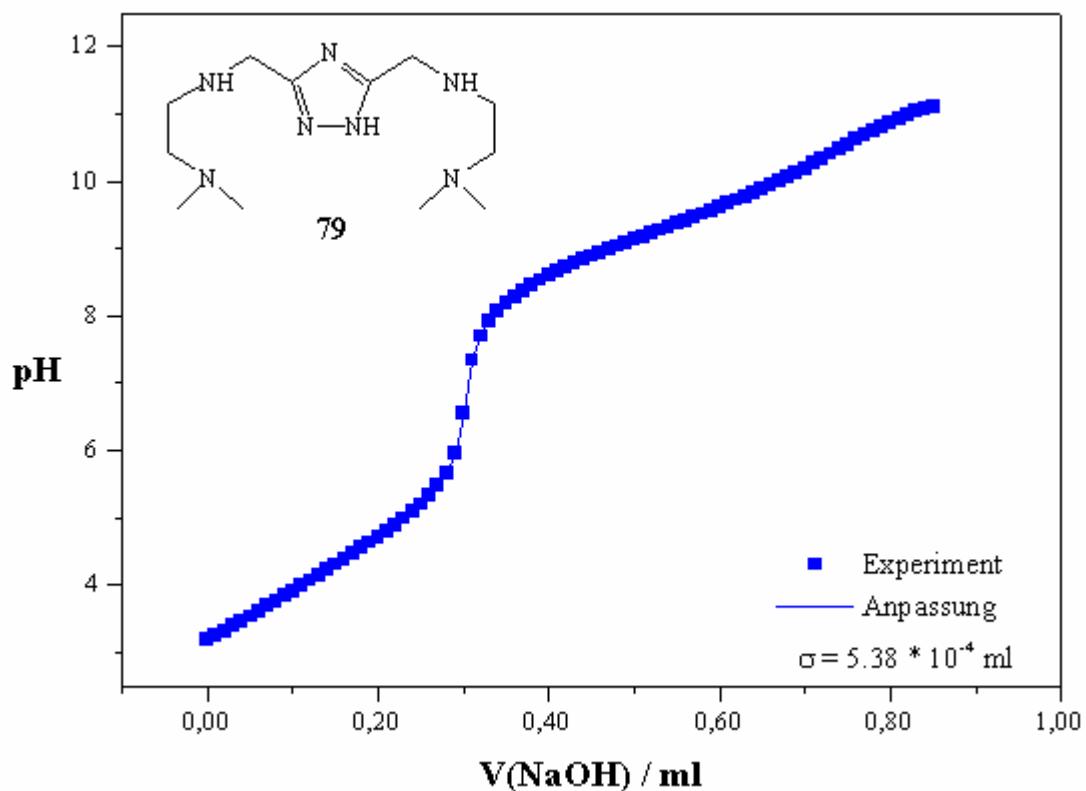
Titration curve (top) and species distribution (below) of ligand **25**, $[L] = 3.0 \cdot 10^{-3} \text{ M}$.



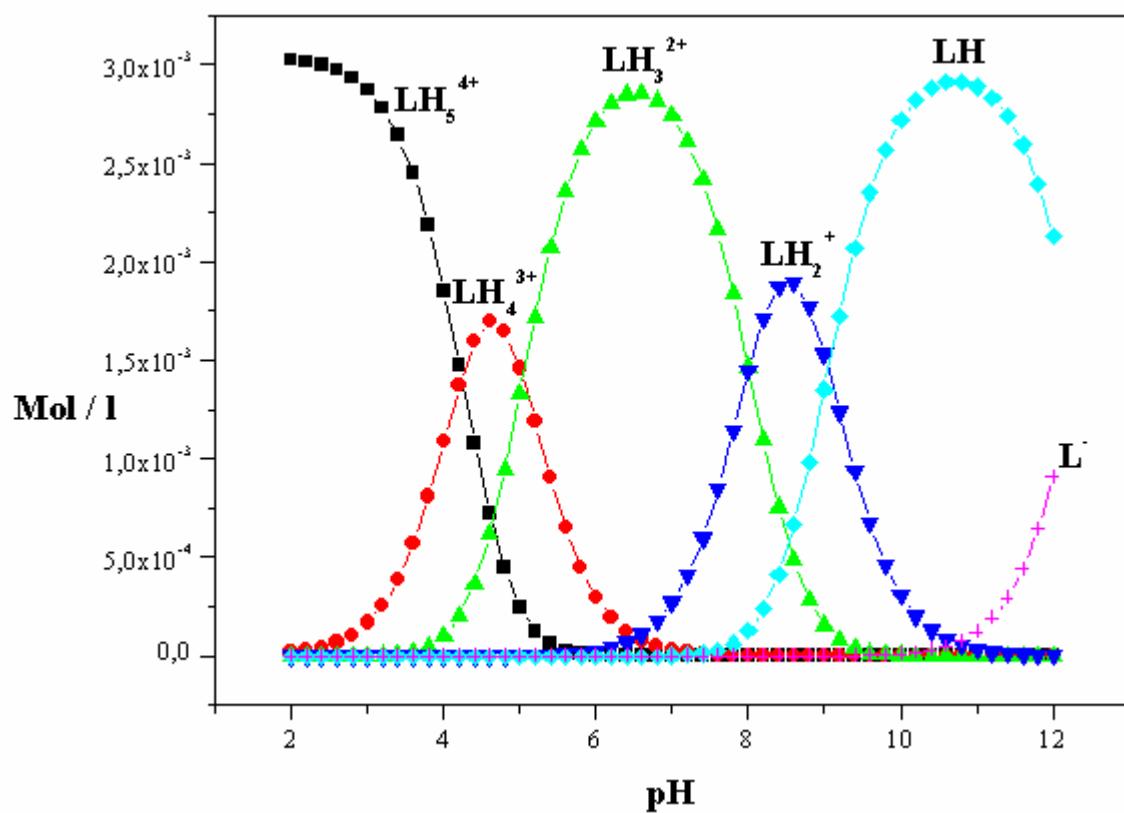
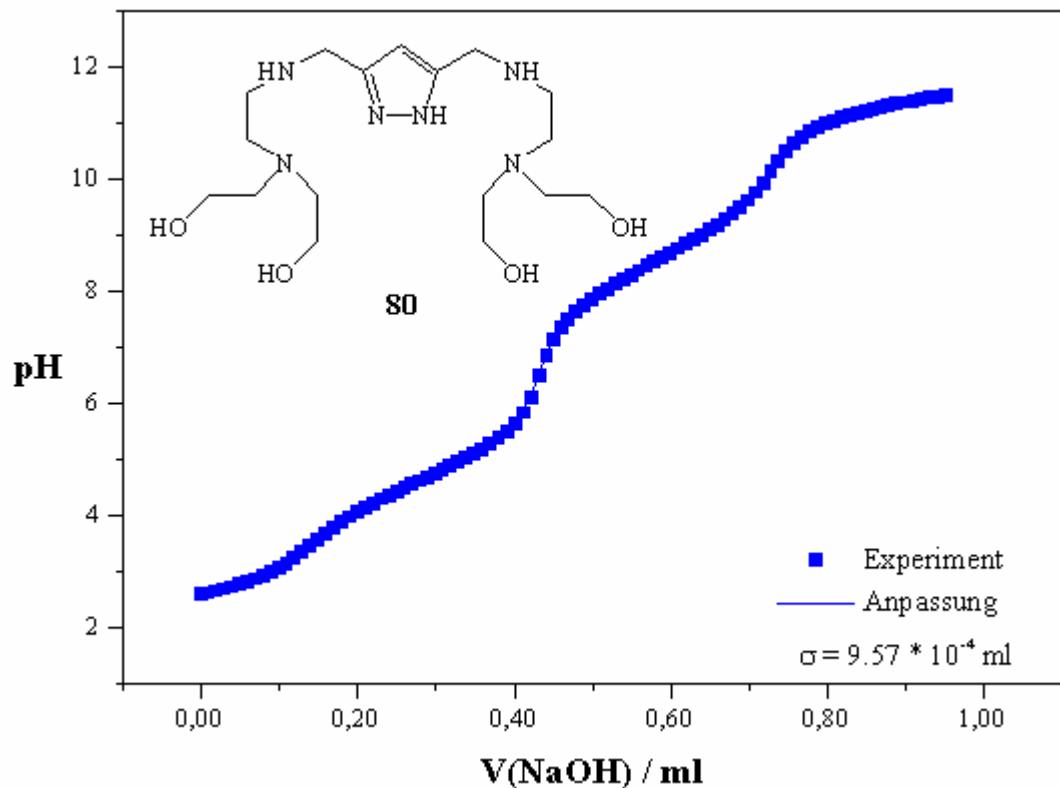
Titration curve (top) and species distribution (below) of ligand **33**, $[\text{L}] = 3.0 \cdot 10^{-3} \text{ M}$.



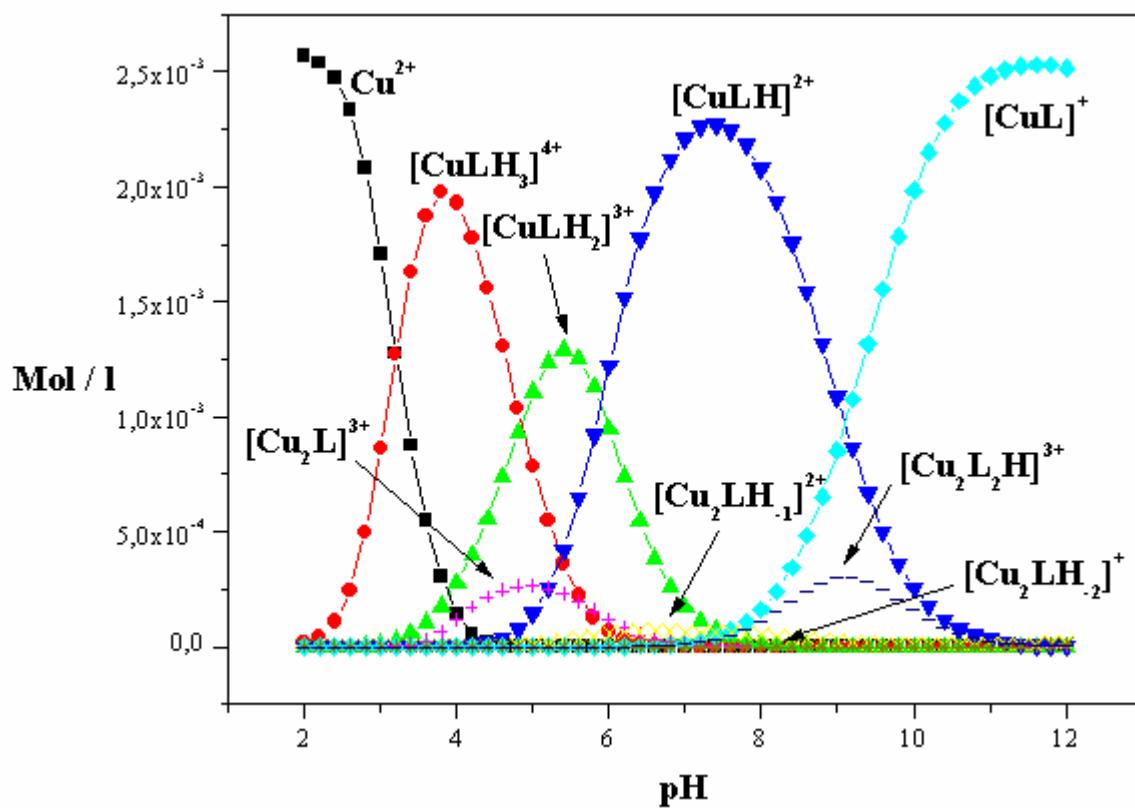
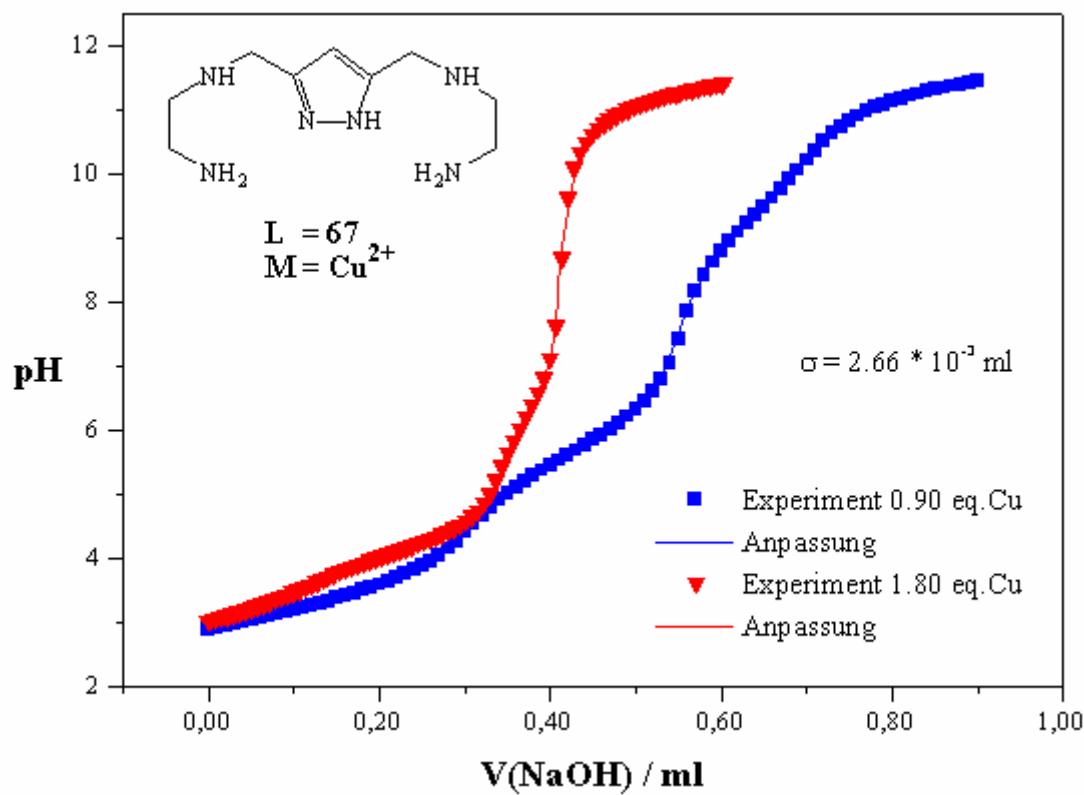
Titration curve (top) and species distribution (below) of ligand **32**, ($[L] = 2.79 \cdot 10^{-3} \text{ M}$).



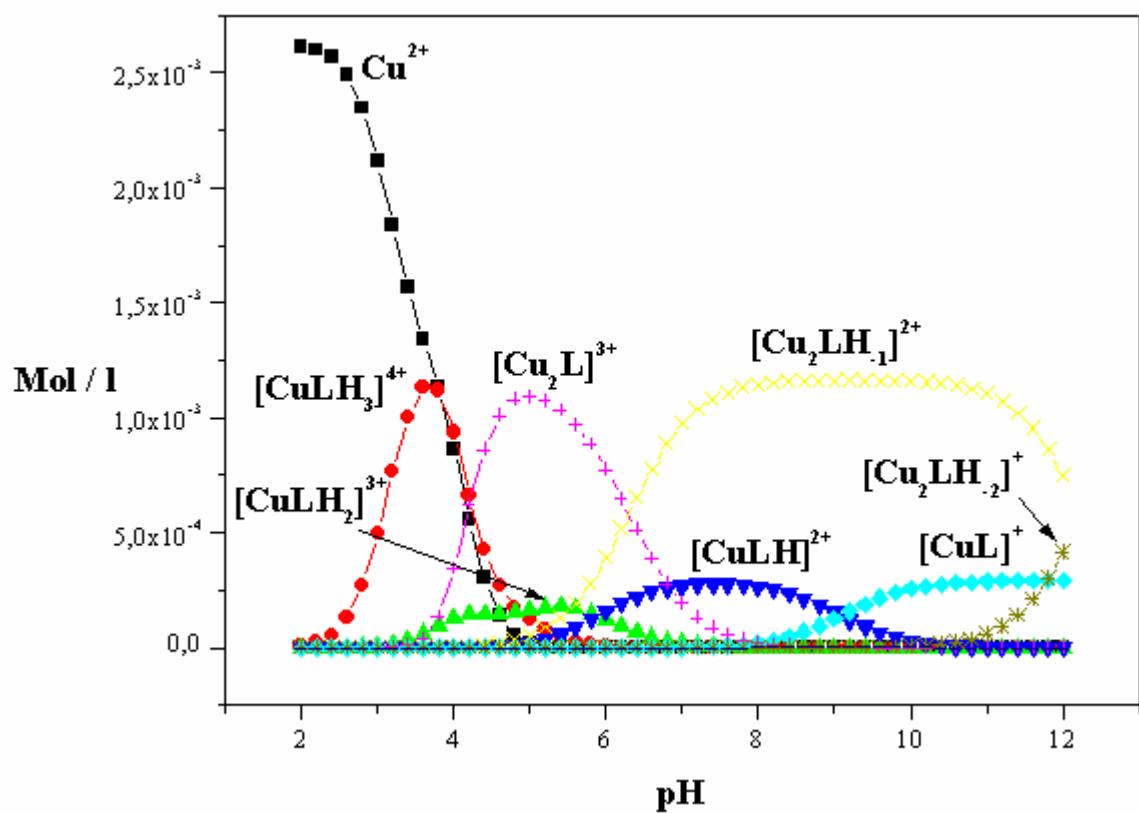
Titration curve (top) and species distribution (below) of ligand 31, $[L] = 3.0 \cdot 10^{-3} \text{ M}$.



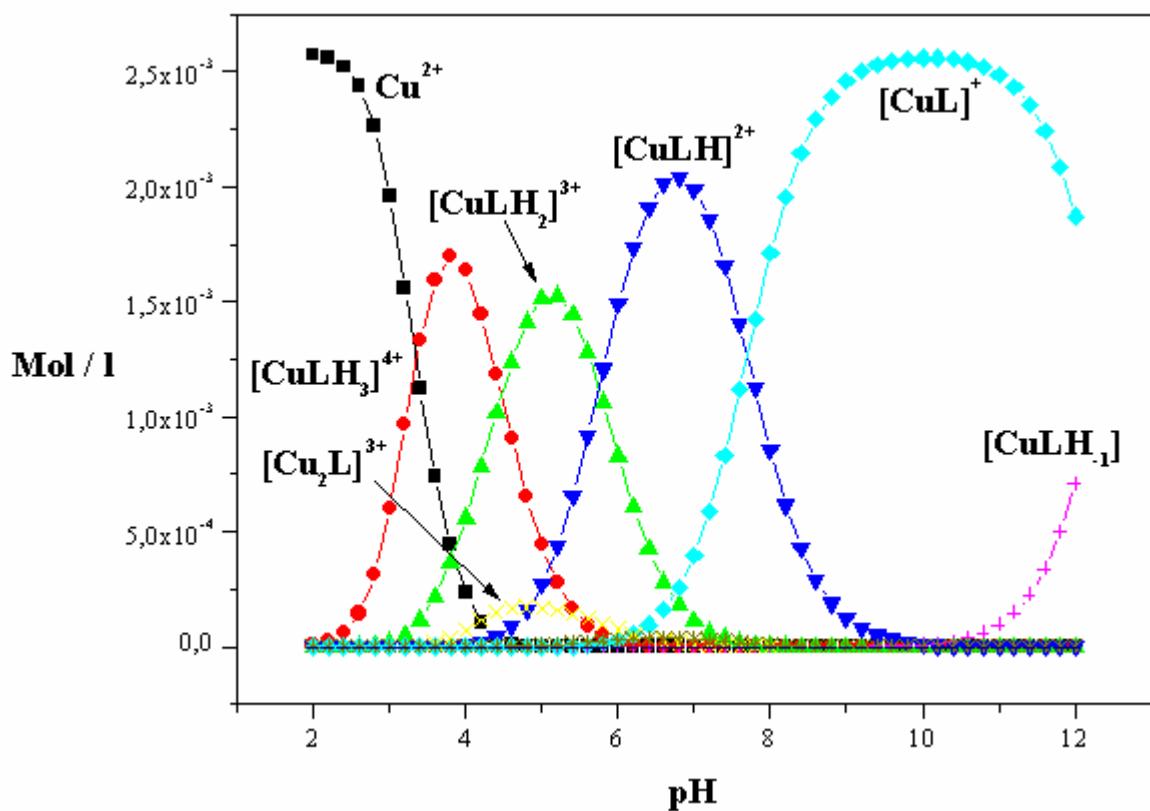
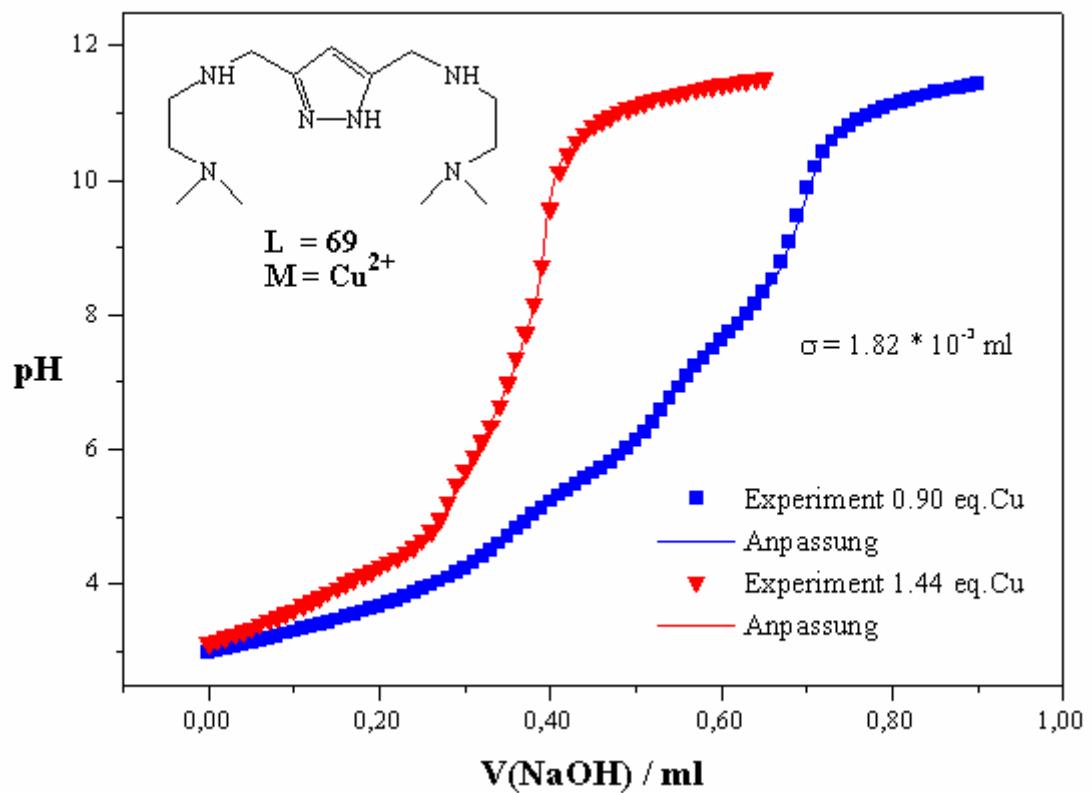
Titration curve (top) and species distribution (below) of ligand **26**, $[L] = 3.0 \cdot 10^{-3}$ M.



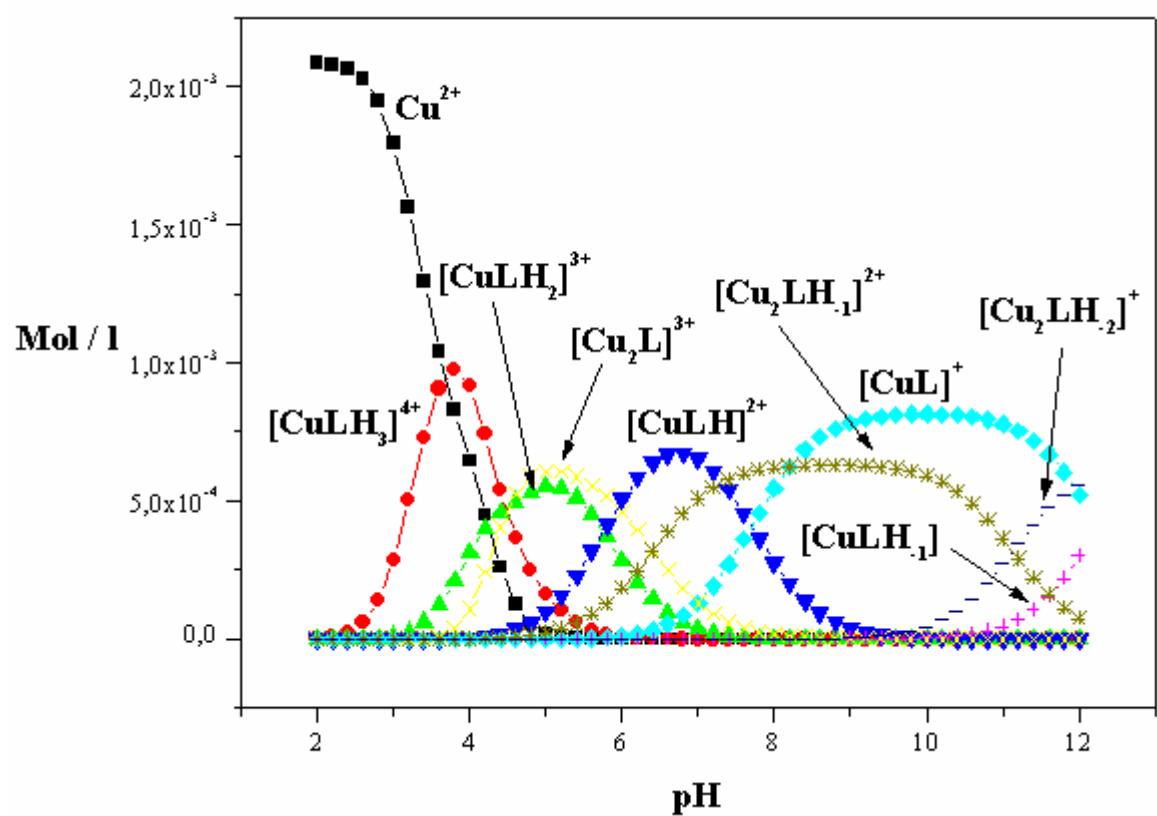
Titration curves (top) and species distribution (below) for the complexes of **19** for $[L] = 3.0 \cdot 10^{-3} \text{ M}$ and $[M] = 2.7 \cdot 10^{-3} \text{ M}$.



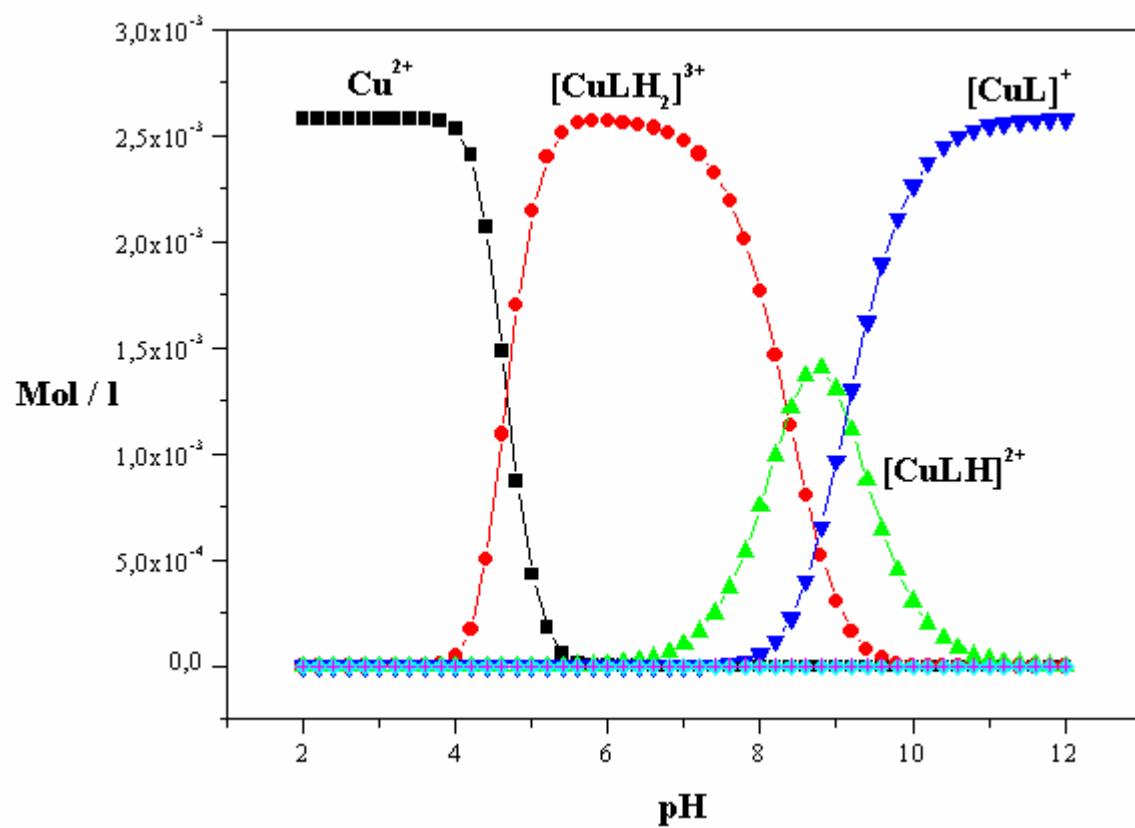
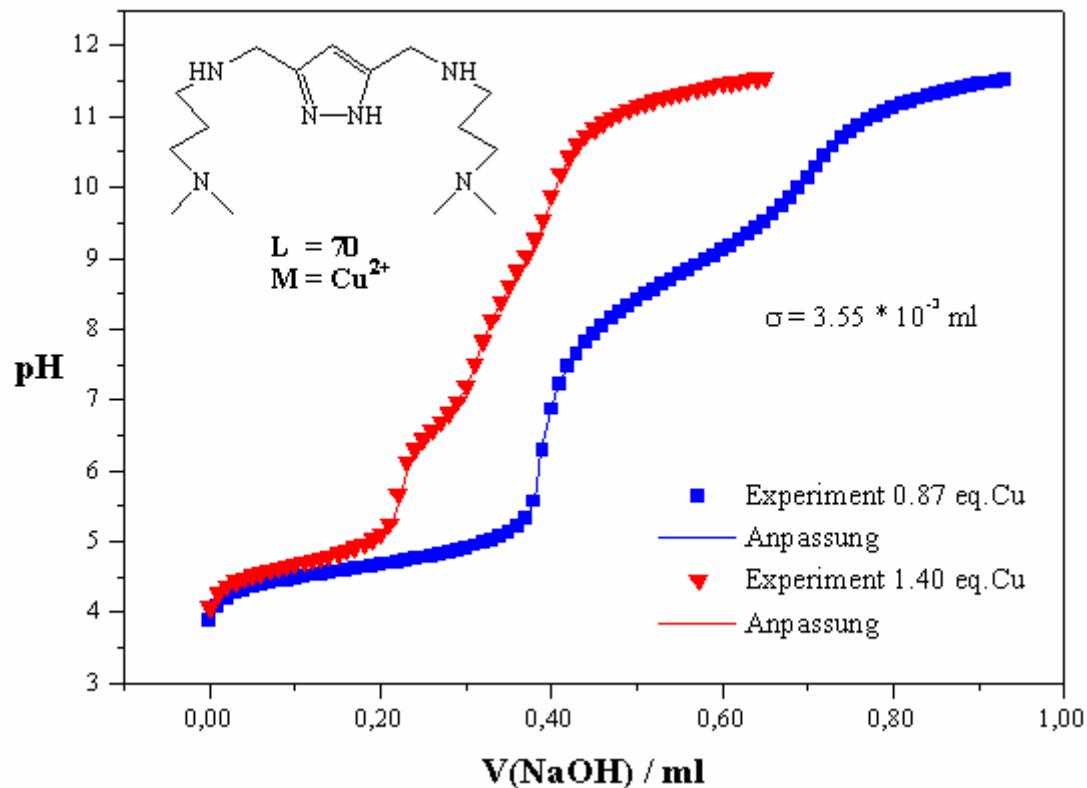
Species distribution for the complexes of **19** for $[\text{L}] = 1.5 \cdot 10^{-3}$ M and $[\text{M}] = 2.7 \cdot 10^{-3}$ M.



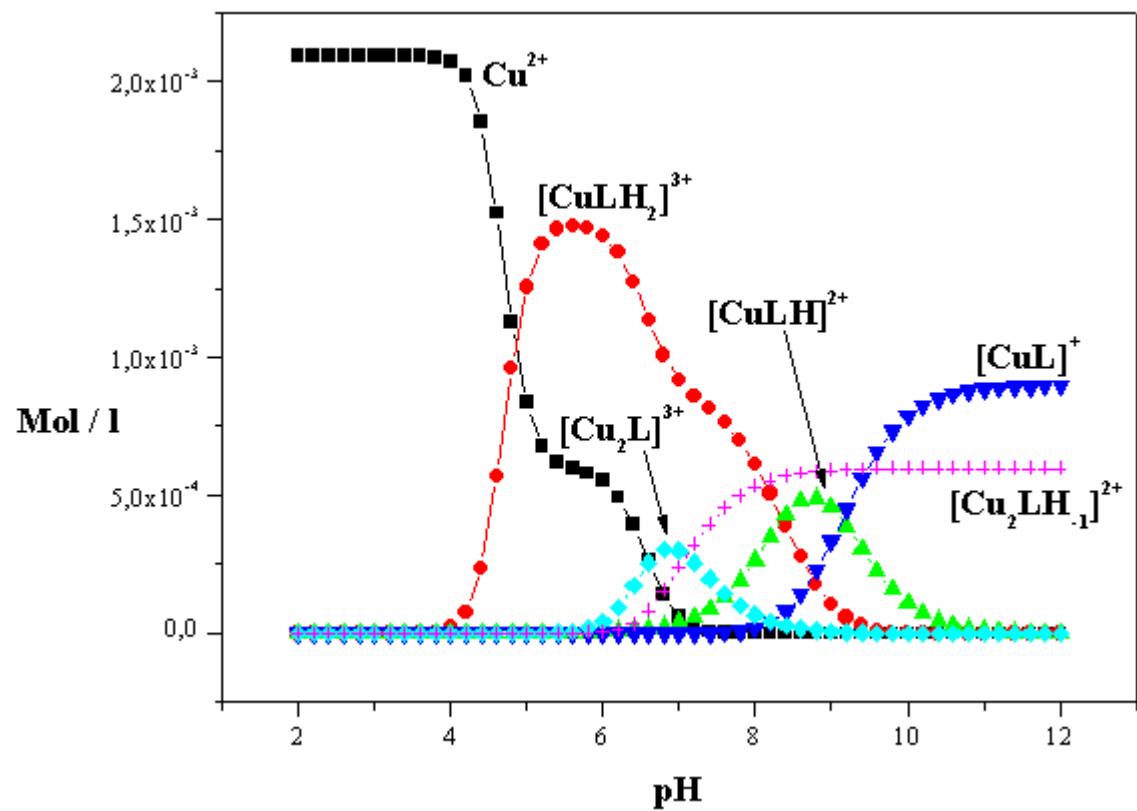
Titration curves (top) and species distribution (below) for the complexes of **16** for $[L] = 3.0 \cdot 10^{-3} \text{ M}$ and $[M] = 2.7 \cdot 10^{-3} \text{ M}$.



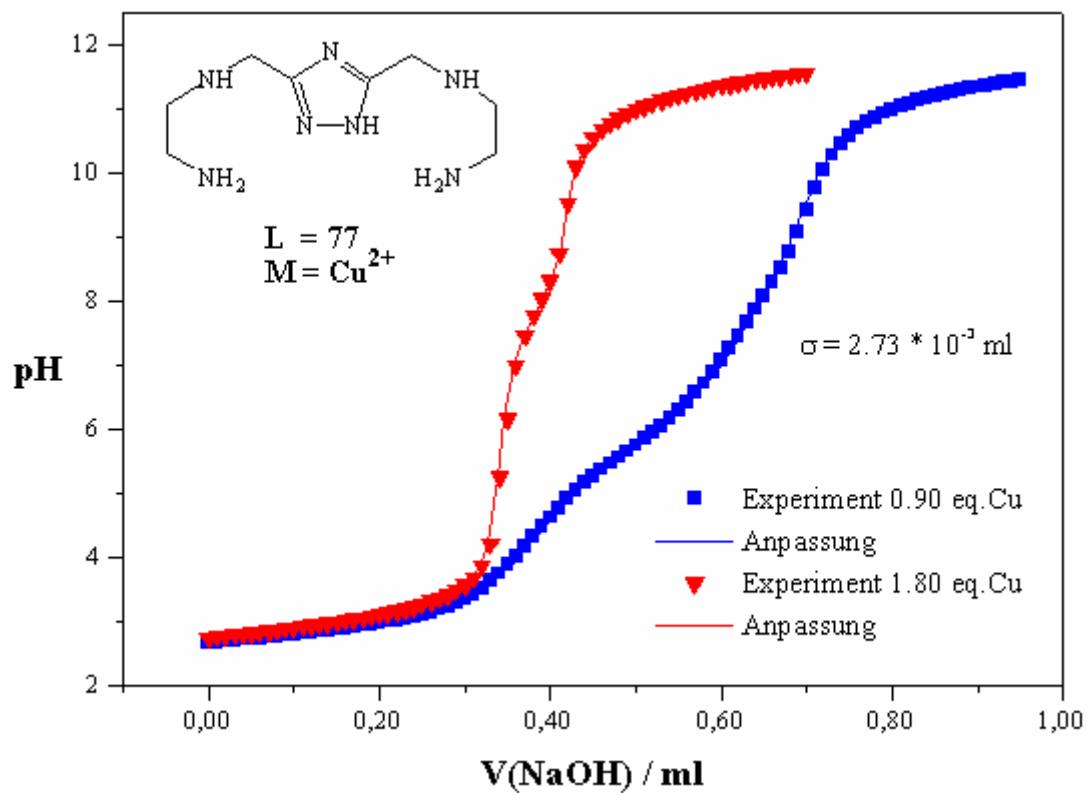
Species distribution for the complexes of **16** for $[\text{L}] = 1.5 \cdot 10^{-3}$ M and $[\text{M}] = 2.16 \cdot 10^{-3}$ M.



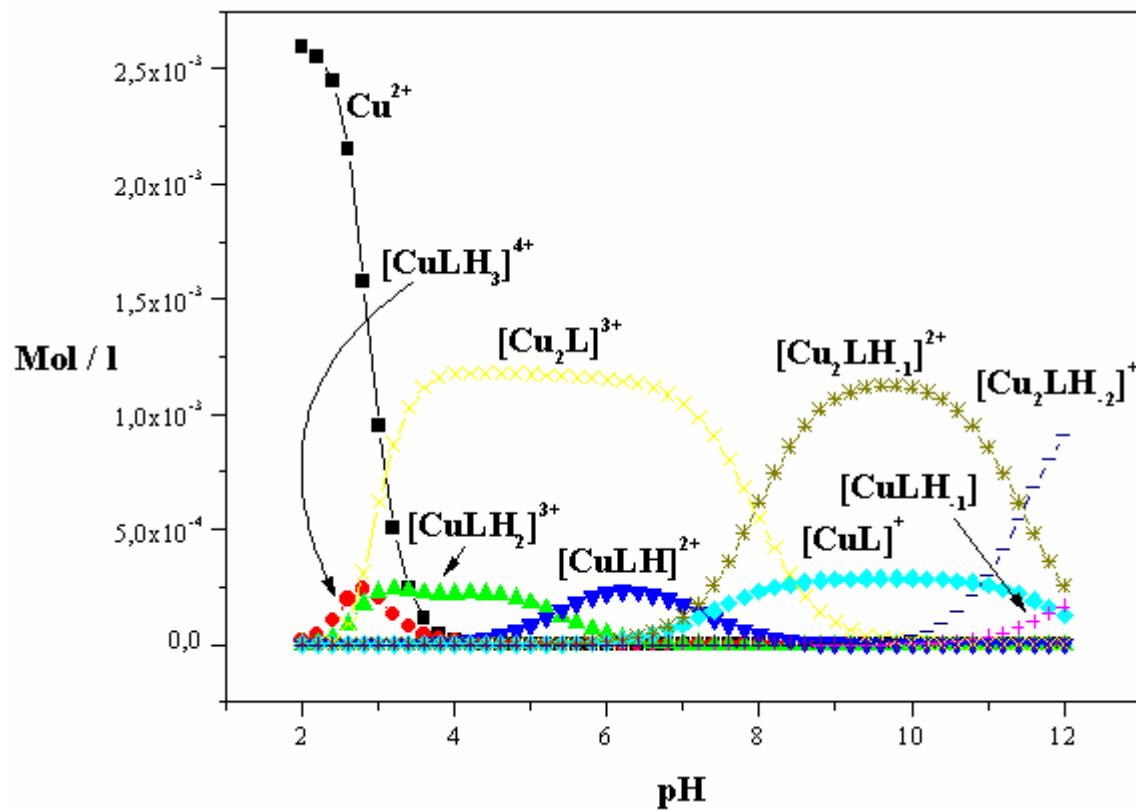
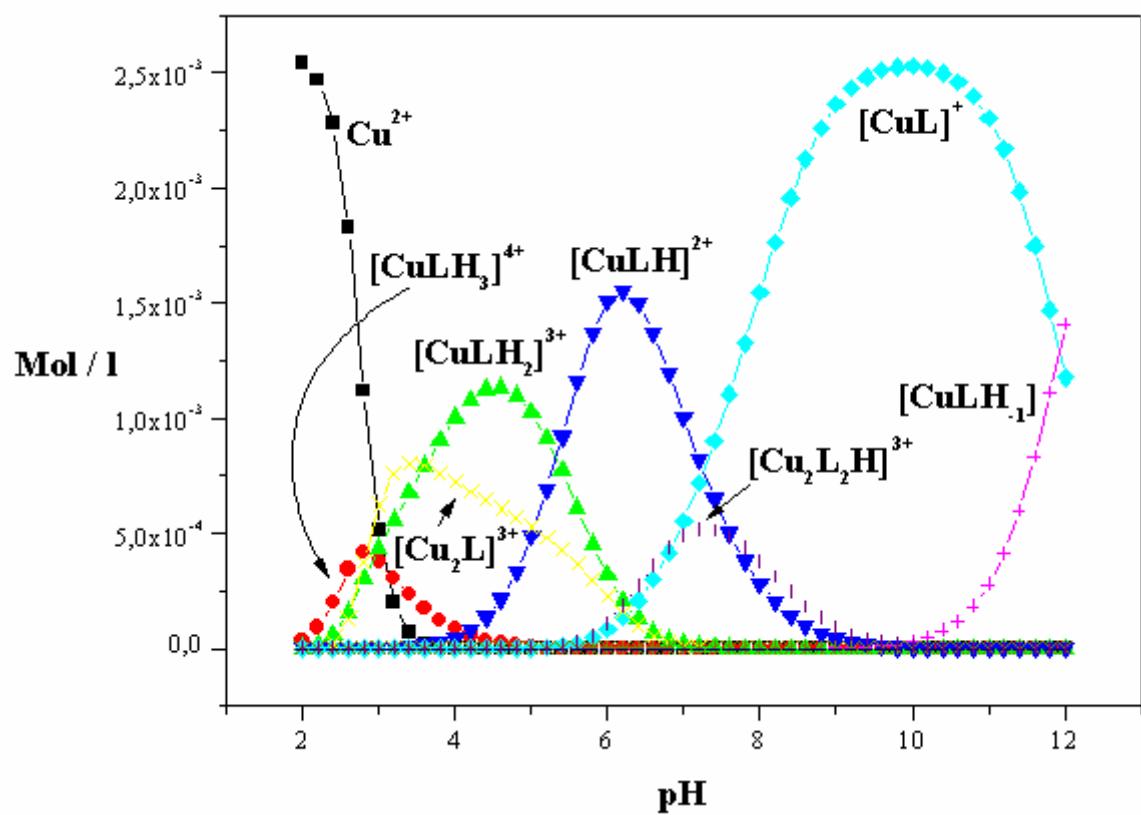
Titration curves (top) and species distribution (below) for the complexes of **17** for $[L] = 3.08 \cdot 10^{-3} \text{ M}$ and $[M] = 2.7 \cdot 10^{-3} \text{ M}$.



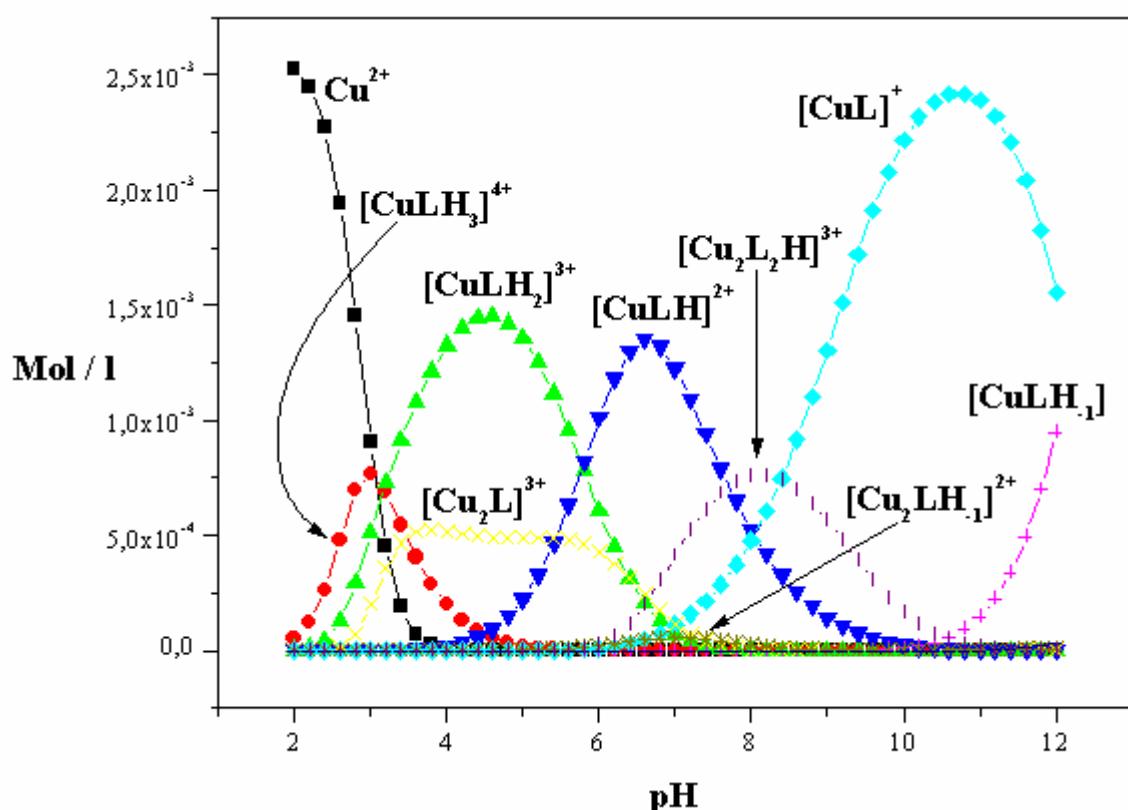
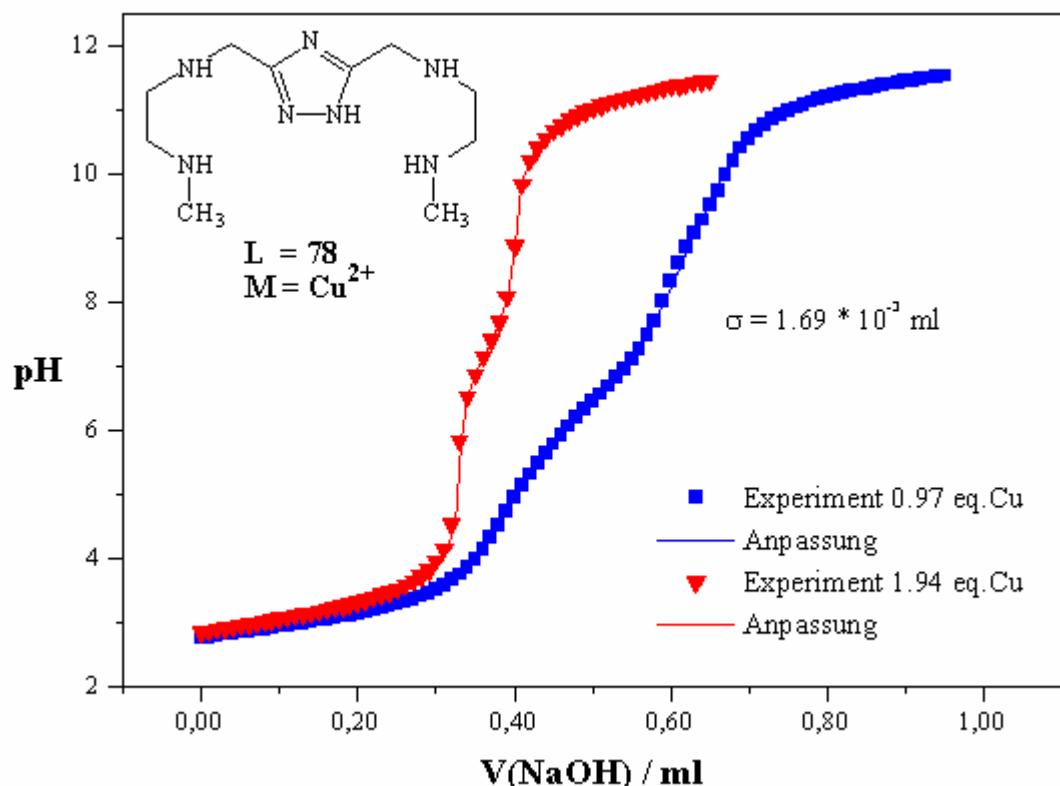
Species distribution for the complexes of **17** for $[\text{L}] = 1.54 \cdot 10^{-3} \text{ M}$ and $[\text{M}] = 2.16 \cdot 10^{-3} \text{ M}$.



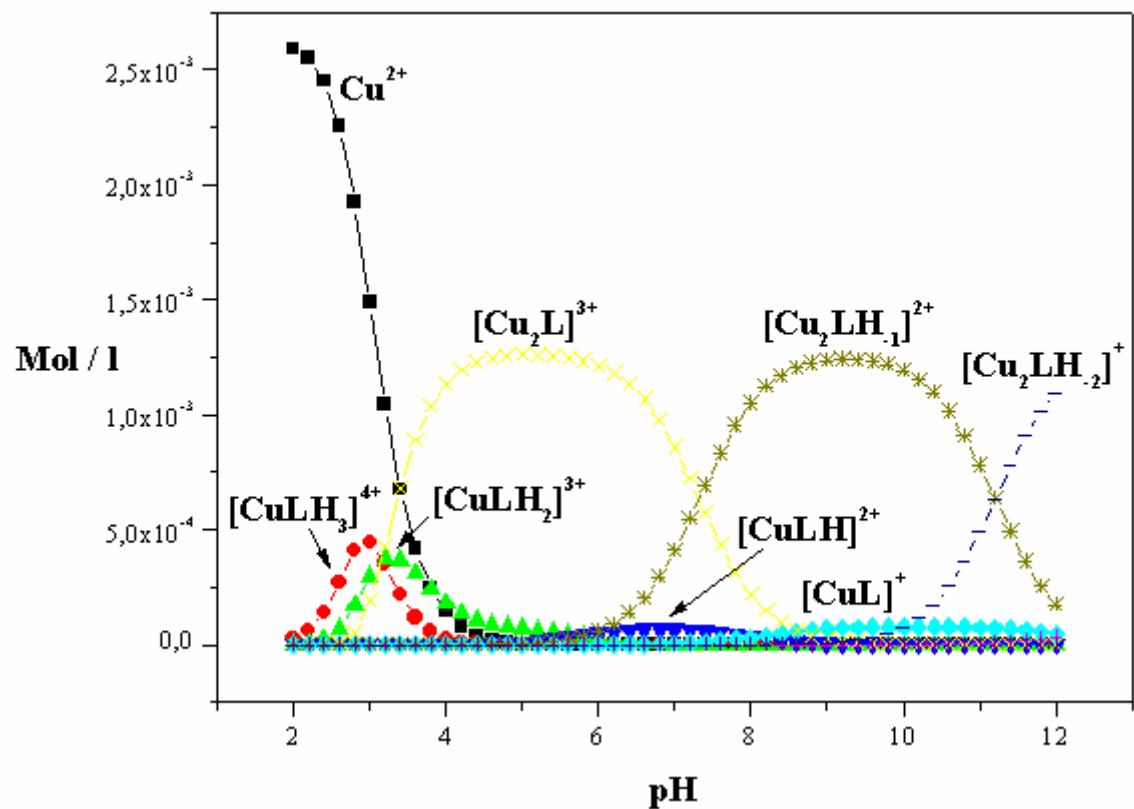
Titration curves of the complexes of ligand **33**.



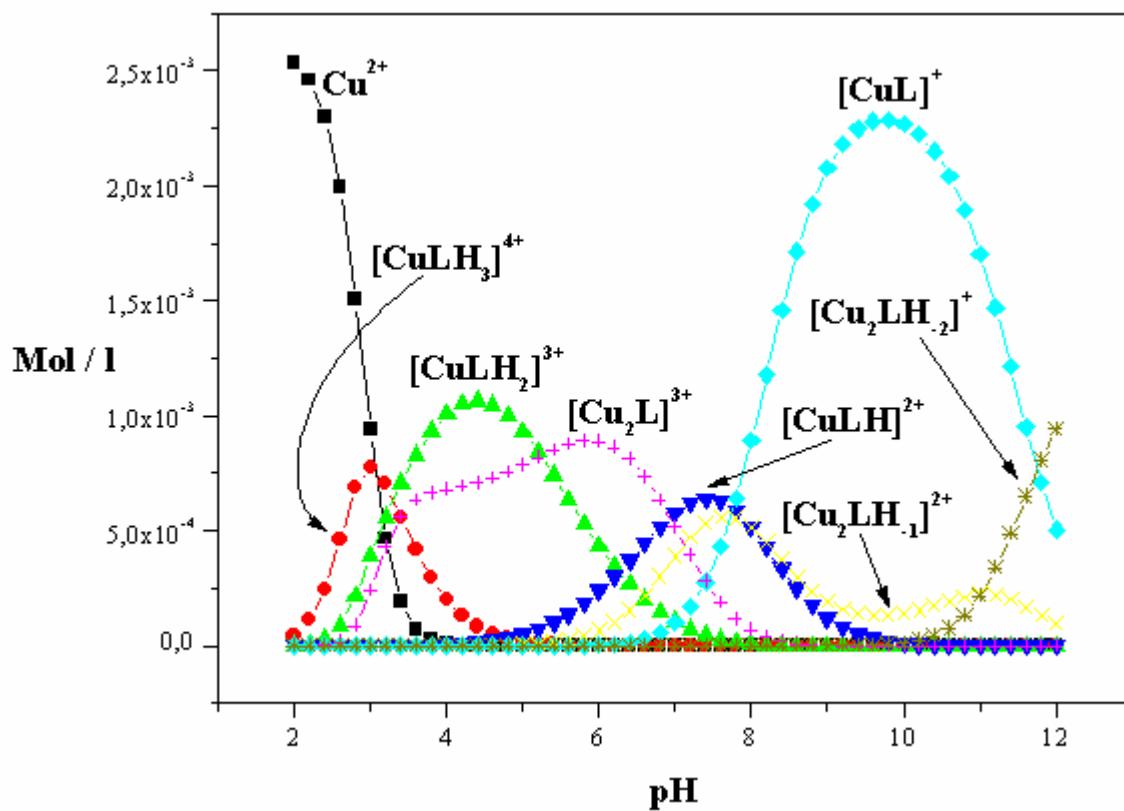
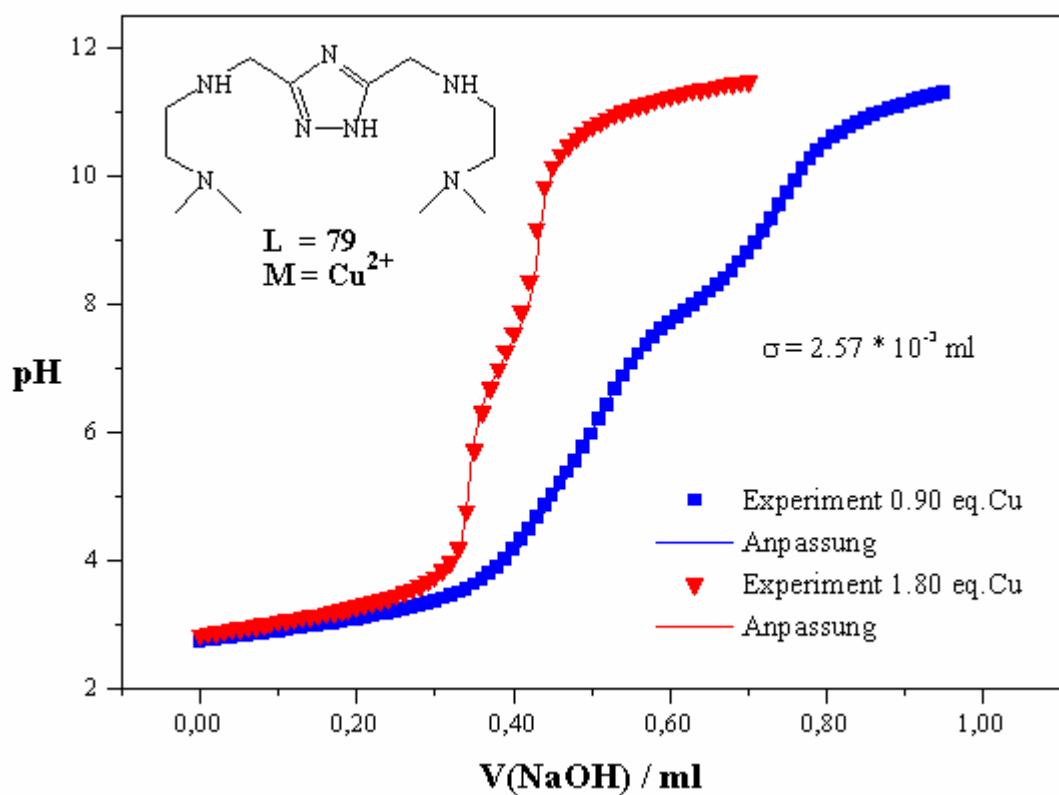
Species distribution for the complexes of **33** for $[\text{L}] = 3.0 \cdot 10^{-3} \text{ M}$ and $[\text{M}] = 2.7 \cdot 10^{-3} \text{ M}$ (top) and for $[\text{L}] = 1.5 \cdot 10^{-3} \text{ M}$ and $[\text{M}] = 2.7 \cdot 10^{-3} \text{ M}$ (below).



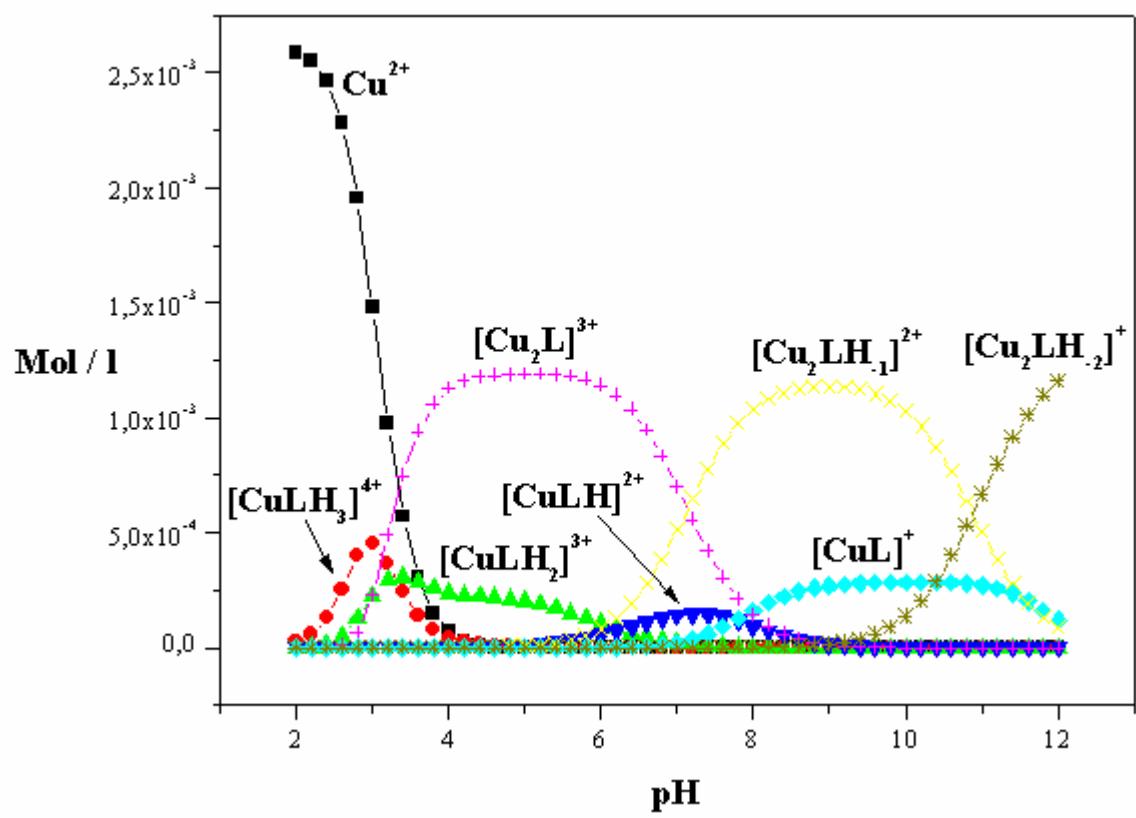
Titration curves (top) and species distribution (below) for the complexes of **32** for $[L] = 2.79 \cdot 10^{-3} \text{ M}$ and $[M] = 2.7 \cdot 10^{-3} \text{ M}$.



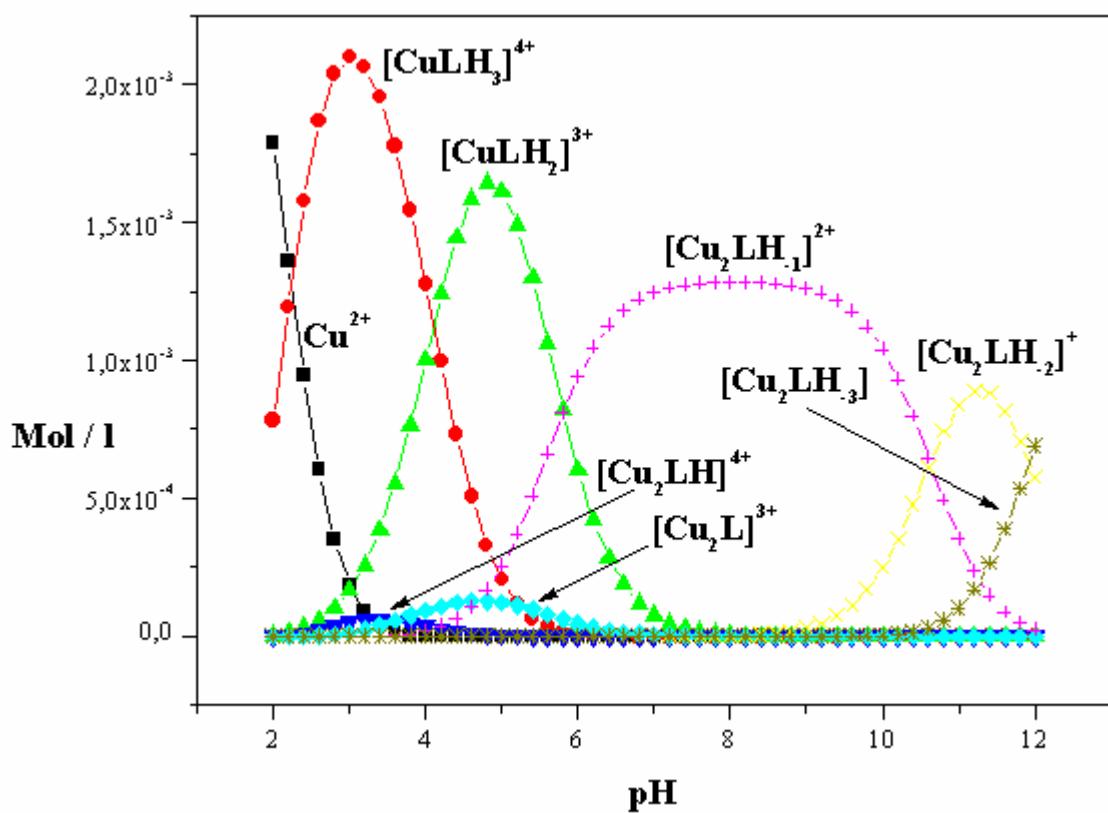
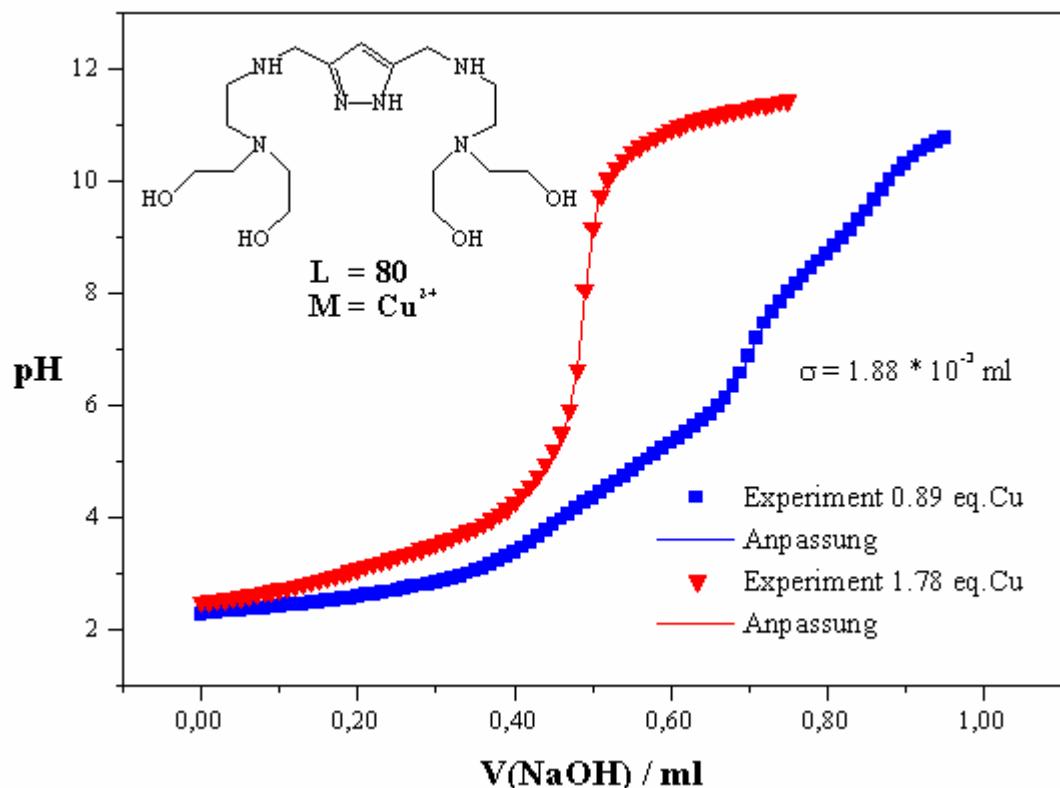
Species distribution for the complexes of **32** for $[\text{L}] = 1.39 \cdot 10^{-3}$ M and $[\text{M}] = 2.70 \cdot 10^{-3}$ M.



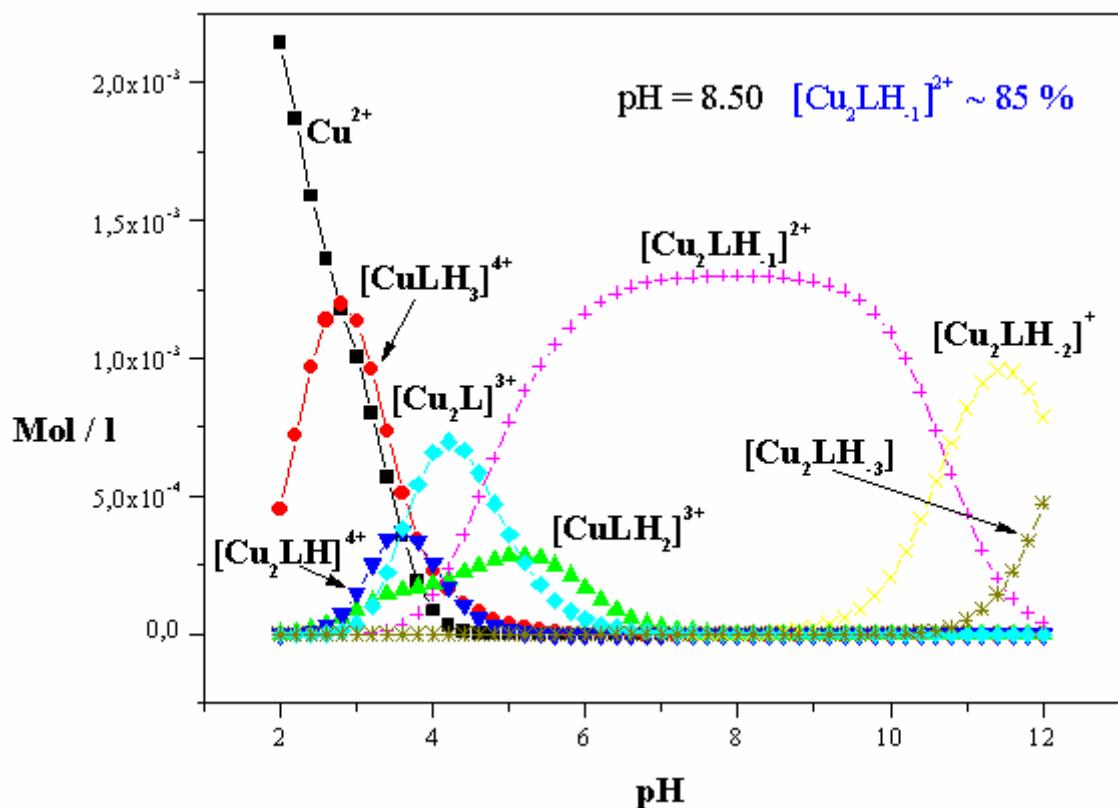
Titration curves (top) and species distribution (below) for the complexes of **31** for $[\text{L}] = 3.0 \cdot 10^{-3} \text{ M}$ and $[\text{M}] = 2.7 \cdot 10^{-3} \text{ M}$.



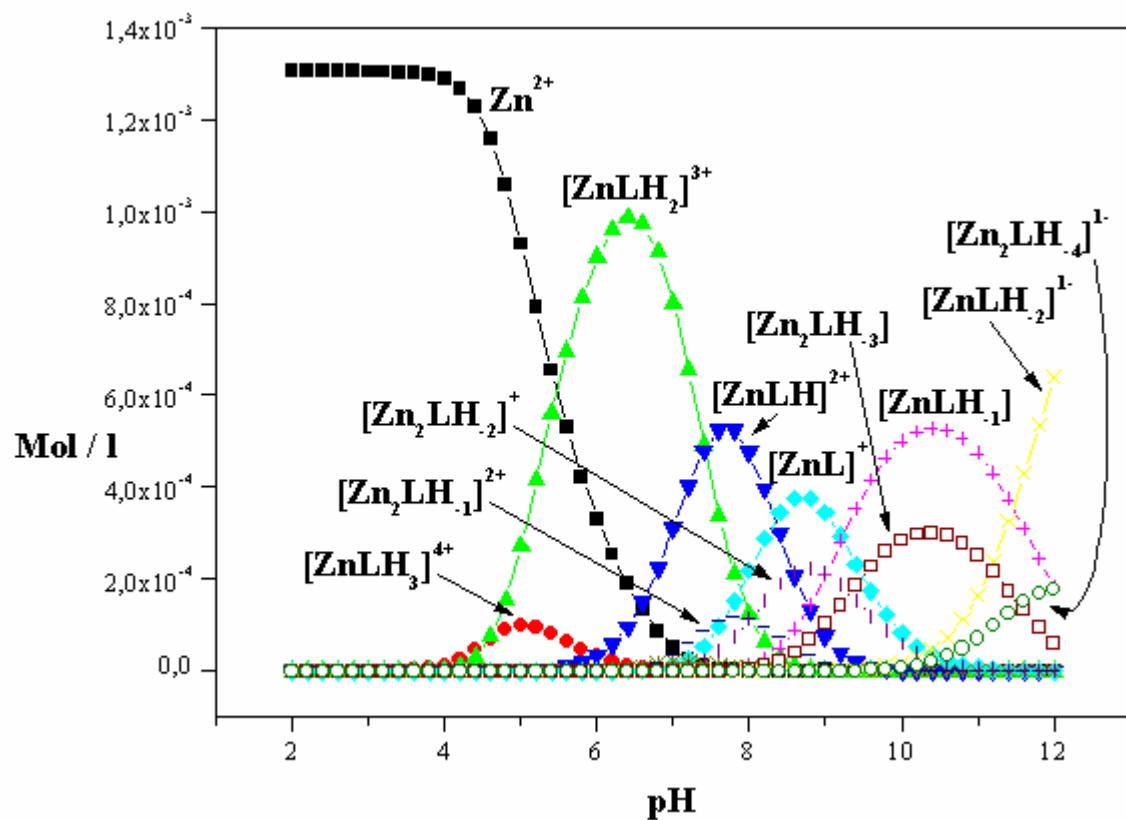
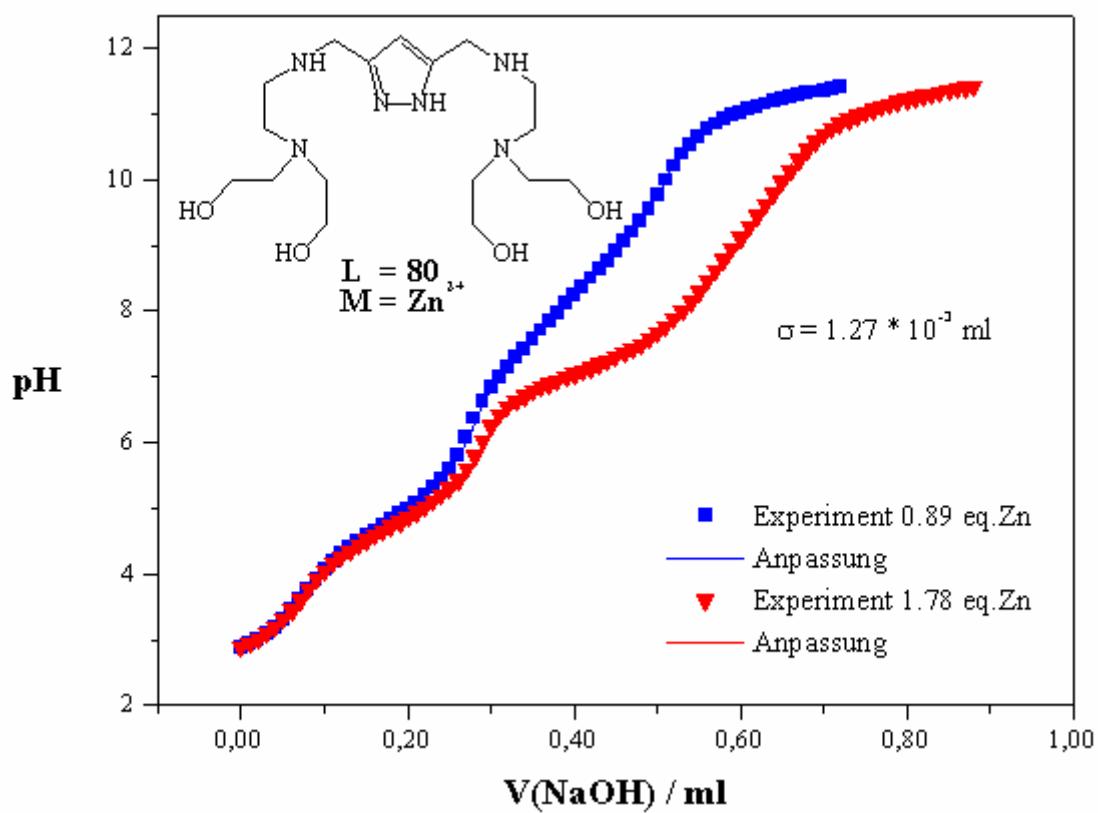
Species distribution for the complexes of **31** for $[\text{L}] = 1.5 \cdot 10^{-3} \text{ M}$ and $[\text{M}] = 2.7 \cdot 10^{-3} \text{ M}$.



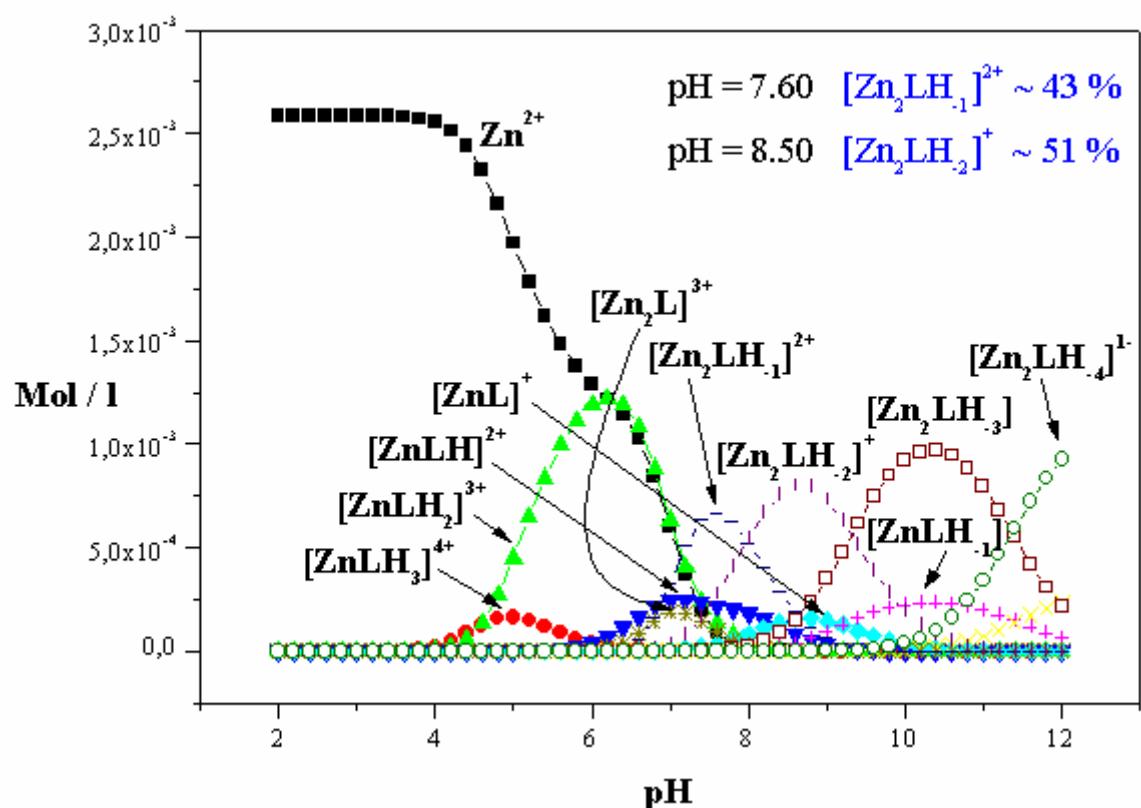
Titration curves (top) and species distribution (below) for the complexes of **26** for $[L] = 3.04 \cdot 10^{-3} \text{ M}$ and $[M] = 2.70 \cdot 10^{-3} \text{ M}$.



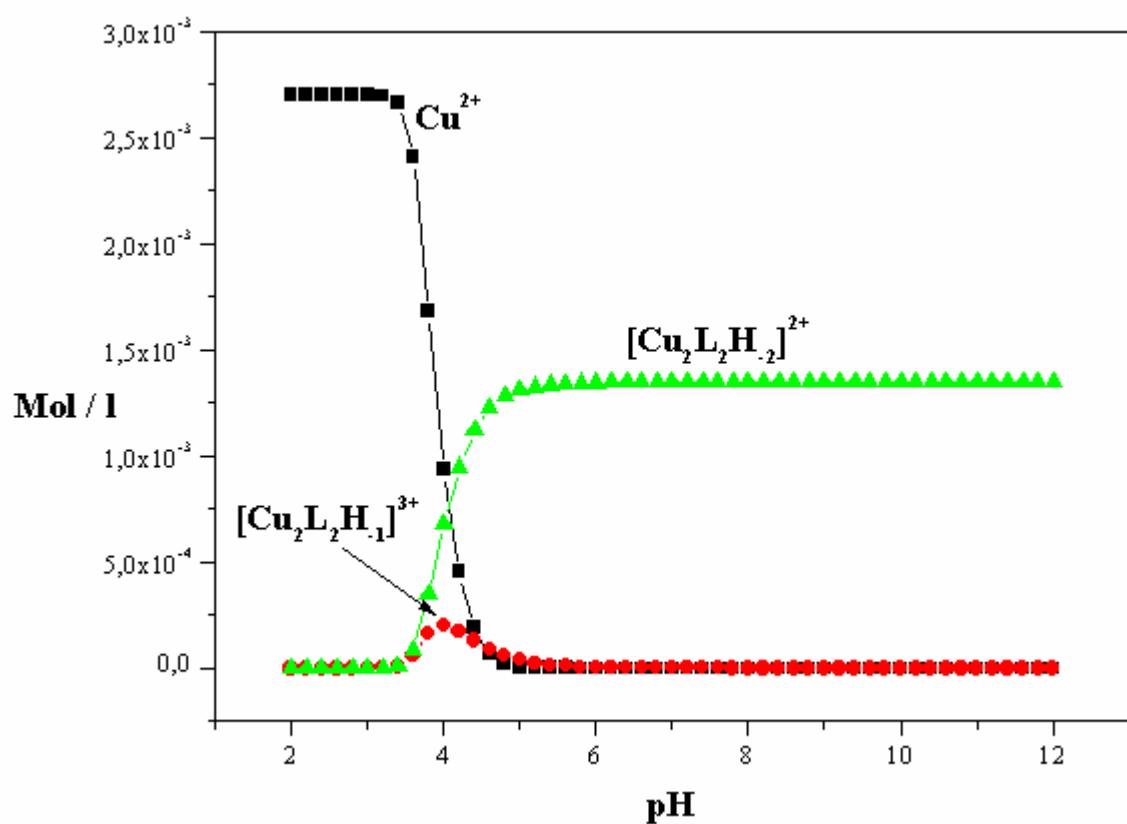
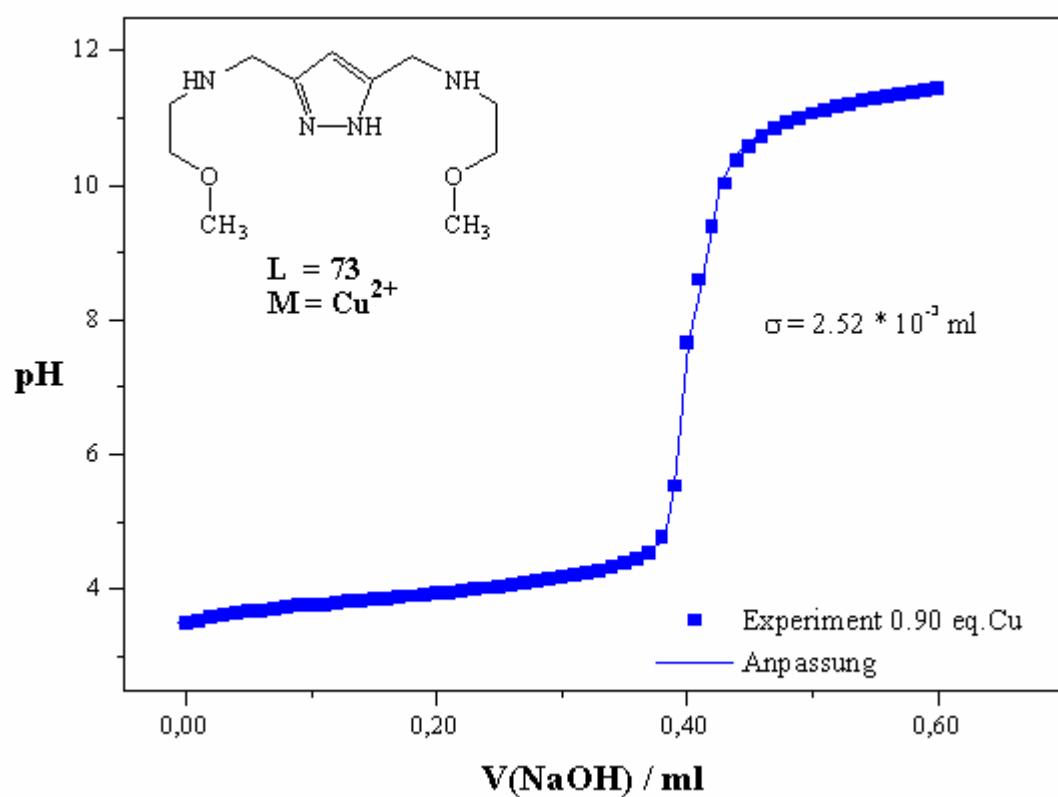
Species distribution for the complexes of **26** for $[\text{L}] = 1.52 \cdot 10^{-3} \text{ M}$ and $[\text{M}] = 2.70 \cdot 10^{-3} \text{ M}$.



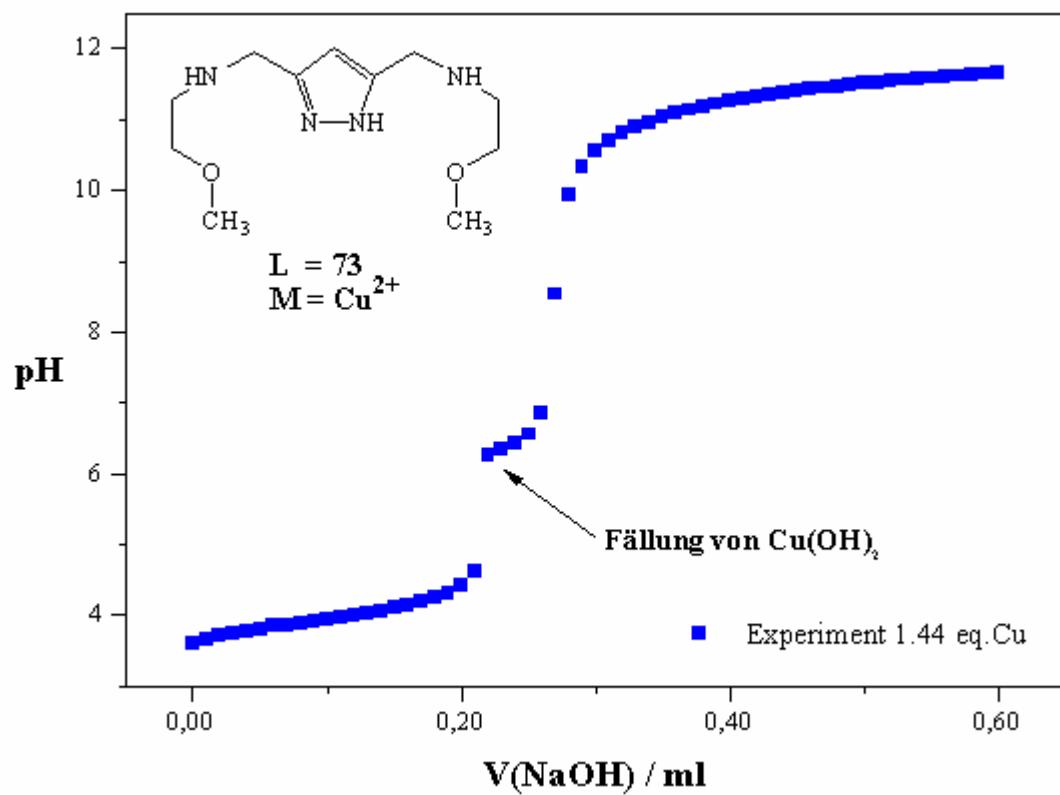
Titration curves (top) and species distribution (below) for the complexes of **26** with Zn^{2+} for $[\text{L}] = 1.52 \cdot 10^{-3} \text{ M}$ and $[\text{M}] = 1.35 \cdot 10^{-3} \text{ M}$.



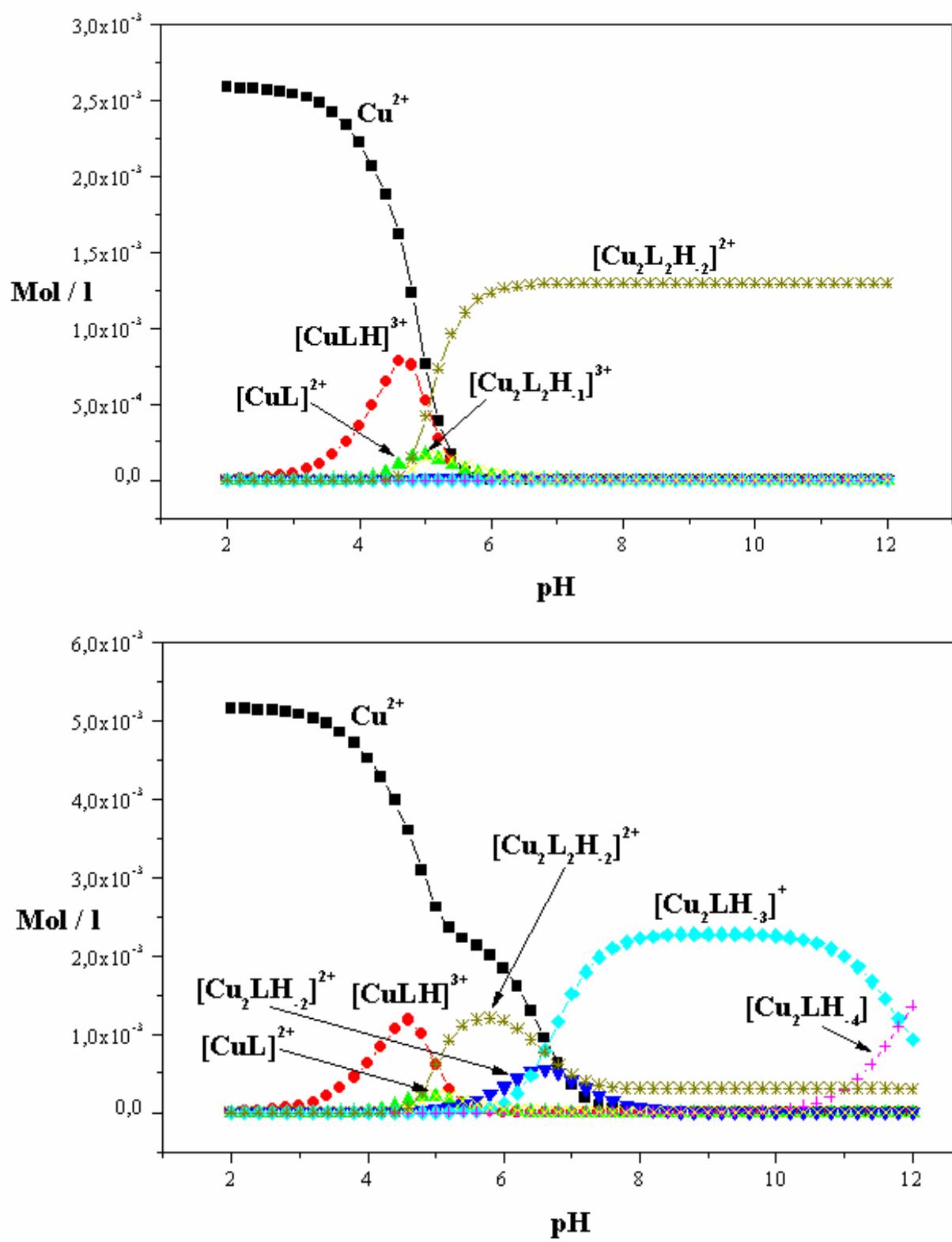
Species distribution for the complexes of **26** with Zn^{2+} for $[\text{L}] = 1.52 \cdot 10^{-3}$ M and $[\text{M}] = 2.70 \cdot 10^{-3}$ M.



Titration curve (top) and species distribution (below) for the complexes of **20** for $[L] = 3.0 \cdot 10^{-3} \text{ M}$ and $[M] = 2.7 \cdot 10^{-3} \text{ M}$.



Titration curve of the complex of ligand **20** for $[L] = 1.5 \cdot 10^{-3} \text{ M}$ and $[M] = 2.16 \cdot 10^{-3} \text{ M}$.



Species distribution for the complexes of **23** for $[\text{L}] = 3.0 \cdot 10^{-3} \text{ M}$ and $[\text{M}] = 2.7 \cdot 10^{-3} \text{ M}$ (top) and $[\text{L}] = 3.0 \cdot 10^{-3} \text{ M}$ and $[\text{M}] = 5.4 \cdot 10^{-3} \text{ M}$ (below).