

Perrhenate and Pertechnetate complexation by an azacryptand in nitric acid medium : supplementary information

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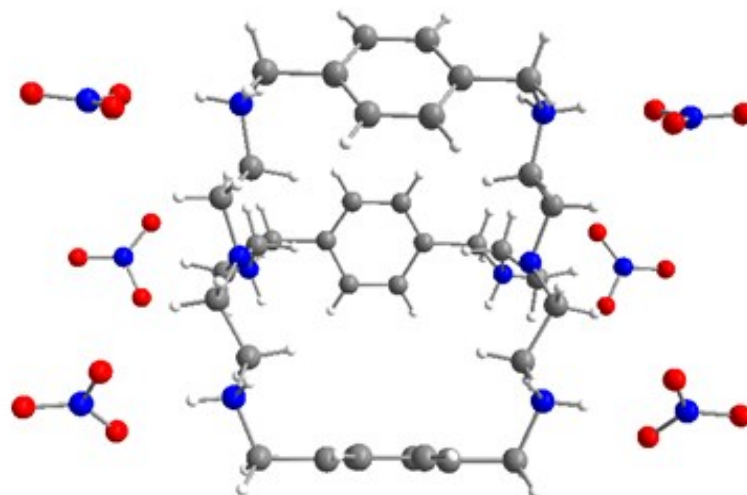


Fig. 1: Crystal structure of $(LH_6).(NO_3)_6$

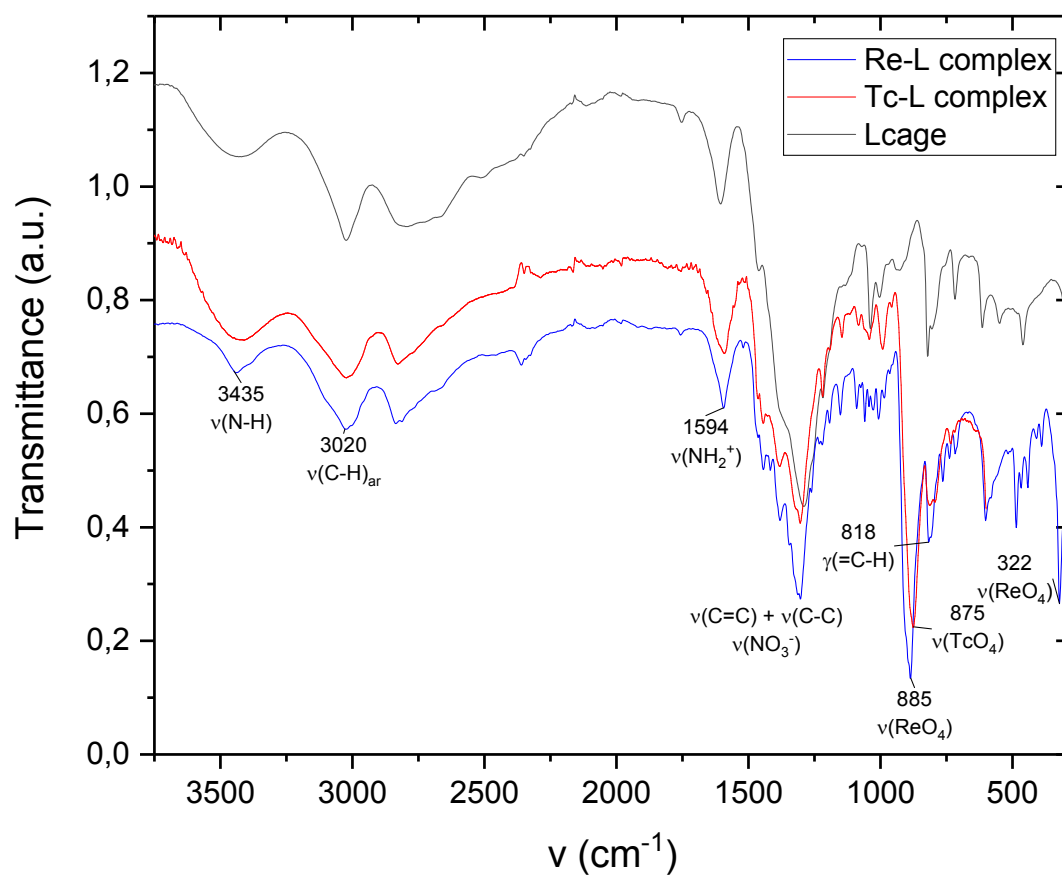


Fig. 2: Full Infrared spectra of the free ligand (black), the rhenium (blue) and technetium (red) complexes

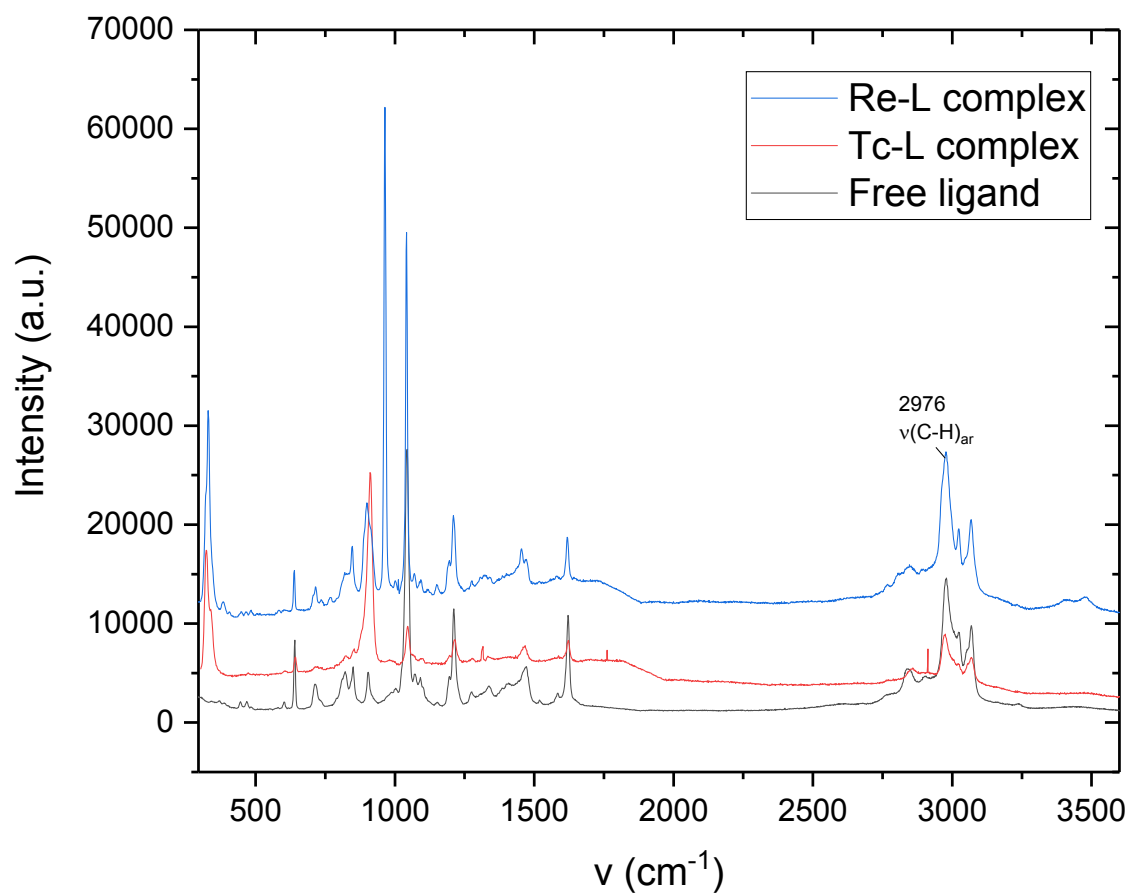


Fig. 3: Full RAMAN spectra of the free ligand (black), the rhenium (blue) and technetium (red) complexes

Table 1 : Single crystal characteristics of $[(\text{LH}_6)(\text{ReO}_4)] \cdot (\text{ReO}_4)_{1.5}(\text{NO}_3)_{3.5} \cdot (\text{H}_2\text{O})_3$

	Nom structure
Crystal color	Colorless
Crystal size (μm)	100x80x50
Crystal system	Monoclinic
Space group	P 2 ₁ /c
Z	4
a ($\text{\AA}$)	18.1970
b ($\text{\AA}$)	16.7678
c ($\text{\AA}$)	17.7700
α ($^\circ$)	90
β ($^\circ$)	107.4263
γ ($^\circ$)	90
V ($\text{\AA}^3$)	5173.2
Density ($\text{mg} \cdot \text{m}^{-3}$)	1.905
Wavelength ($\text{\AA}$)	0.71073
Temperature (K)	153
2 θ range ($^\circ$)	50.52
Reflns collected	11088
R1 (F) ^a > 2.0 σ (I)	0.0326
wR2(F2) ^a , all data	0.0821