

A MOF-type magnesium benzene-1,3,5-tribenzoate with two-fold interpenetrated ReO_3 nets.

Christophe Volkringer, Thierry Loiseau,* Jérôme Marrot and Gérard Férey

Institut Lavoisier (UMR CNRS 8180), Université de Versailles Saint Quentin en Yvelines, 45, avenue des Etats-Unis, 78035 Versailles, France. E-mail : loiseau@chimie.uvsq.fr. Phone: +33 1 39 254 373. Fax: +33 1 39 254 358.

* To whom correspondence should be addressed.

Supplementary materials

To be submitted to *Chem. Commun. or CrystEngComm*
Version july 1st, 2008
Revised version august, 25, 2008

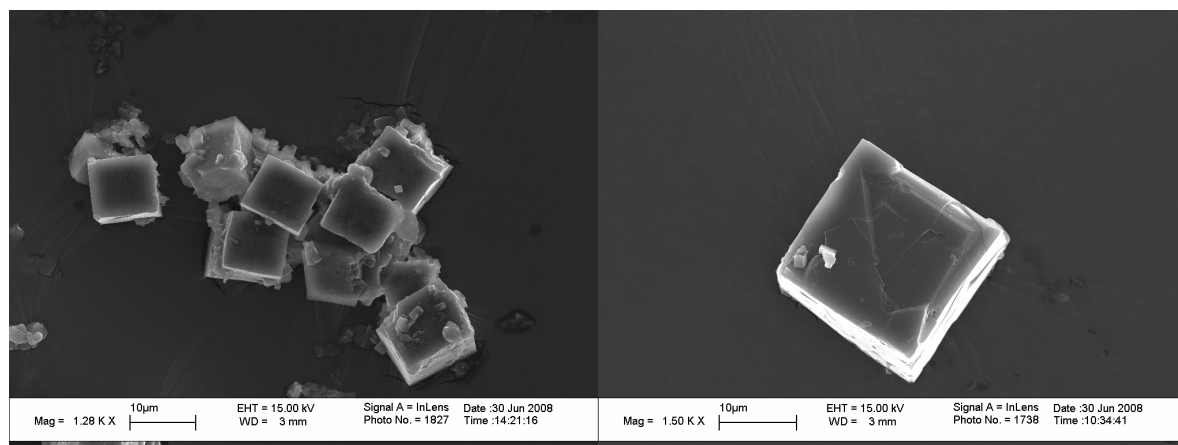


Fig. S1: SEM images of cube-shaped crystals of the magnesium benzene-1,3,5-tribenzoate (MIL-123)

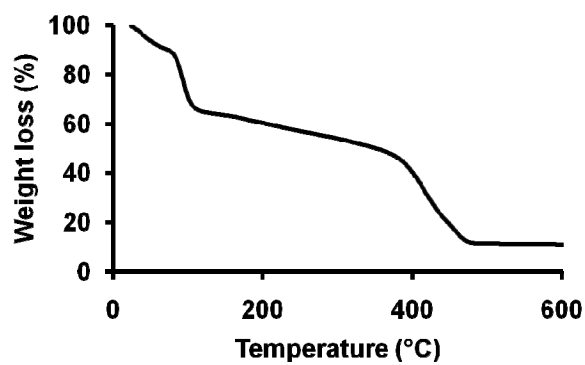


Fig. S2: Thermogravimetric curve of the magnesium benzene-1,3,5-tribenzoate (MIL-123) under O₂ (1°C/min).

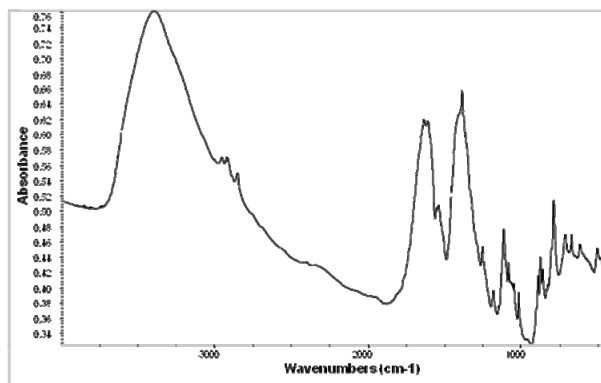


Fig. S3: IR spectrum of the magnesium benzene-1,3,5-tribenzoate (MIL-123)

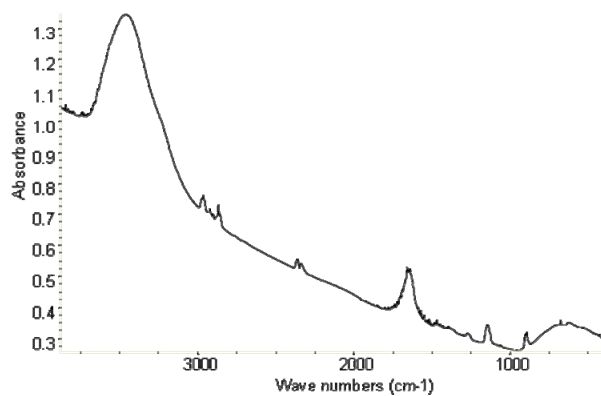


Fig. S3bis: IR spectrum of 1,4-dioxane in KBr collected Room temperature, showing the C-O vibration at 1640 cm⁻¹

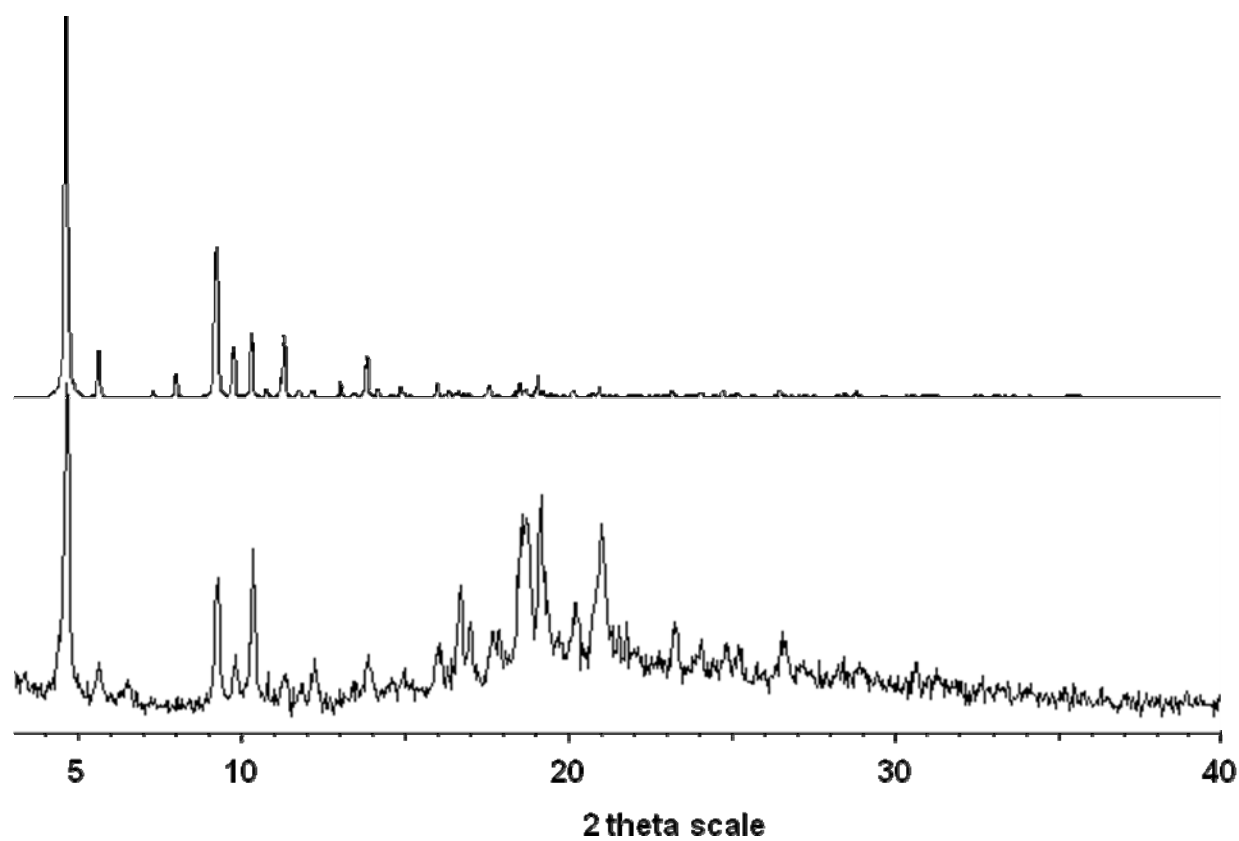


Fig. S4: XRD patterns of MIL-123 (top): calculated; (bottom): as-synthesized