

### [Co(2,3-tir)(amp)Cl]ZnCl<sub>4</sub>体系中三个几何经式异构体的识别

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**摘要** 对[Co(2,3-tir)(amp)Cl]ZnCl<sub>4</sub>(2,3-tri=N-(2-aminoethyl)-1,3-propanediamine; amp=2-(aminomethyl)pyridine)体系进行了合成,分离出四个配合物。用单晶X射线衍射分析了两个结构,用二维核磁共振DQCOSY和NOESY技术联合解板了另一结构。结构解析显示它们为该体系的四个几何经式异构体(meridianisomers)。两个晶体结构都属中心对称的空间群,表明它们都是外消旋的对映体。

**关键词** [异构体](#) [二维核磁共振谱法](#) [晶体结构](#) [经式异构体](#) [X射线衍射分析](#) [钴络合物](#) [辨识](#)

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### Assignment of three geometrical mer-isomers of [Co(2,3-tir)(amp)Cl] ZnCl<sub>4</sub>

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**Abstract** Three geometrical meridian isomers of [Co(2,3-tir)(amp)Cl]ZnCl<sub>4</sub>(2,3-tri=N-(2-aminoethyl)-1,3-propanediamine; amp=2-(aminomethyl)pyridine) were synthesized and isolated. The crystal structures of two title complexes were determined. The third complex remaining in solution was characterized by 2D NMR techniques including DQCOSY and NOESY. The two geometrical isomers, which were enantiomers to each other and existed in a 1:1 ratio, were proven to be the meridian isomer, based on the centric space groups.

**Key words** [ISOMER](#) [2D NMR SPECTROMETRY](#) [CRYSTAL STRUCTURE](#) [X-RAY DIFFRACTION ANALYSIS](#) [COBALT COMPLEX](#) [IDENTIFICATION](#)

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