

عنوان مقاله:

Benzonitrile in a Redox Reaction with As-containing Dilithium Salt

محل انتشار:

چهارمین کنفرانس بین المللی پژوهشهای کاربردی در علوم شیمی و زیست شناسی (سال: 1396)

تعداد صفحات اصل مقاله: 5

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خلاصه مقاله:

Base stable benzonitrile was reacted with tert-butyl arsenic dilithium in tetrahydrofuran. Crystallization of the product was performed in tetramethylethylenediamine and dimethyldiglycol. The resulted aromatic five-membered diaza cycle containing arsenic was coordinated in salt form and characterized using NMR and FT-IR spectroscopy, Mass spectrometry and single crystal structure analysis. According to the result of analysis, the crystallized product consists of distorted octahedrally coordinated Li^+ ion, $[\text{Li}(\text{MeO}(\text{CH}_2)_2\text{O}(\text{CH}_2)_2\text{OMe})_2]^+$, and the complex anion $[\text{Li}(\text{Me}_2\text{N}(\text{CH}_2)_2\text{NMe}_2)\{\text{As}[\text{NC}(\text{C}_6\text{H}_5)\text{NC}(\text{C}_6\text{H}_5)]\}_2]^-$ with a distorted tetrahedrally environment of the Li^+ ion

کلمات کلیدی:

crystal structure, aromatization, benzonitrile

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