

NOTES

新颖的主链含噻唑和硫杂环戊烯环的 π -共轭聚西佛碱

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摘要 四硫杂并环戊二烯二酮与双噻唑二胺的缩合反应以良好的得率给出结构新颖的 π -共轭聚西佛碱。应用VPO, FTIR和 ^1H NMR对该聚合物作了初步表征。UV-Vis光谱的红移现象证实了主链共轭结构的形成; 此外, 此类杂环聚合物表现出良好的热稳定性和金属配位性能。

关键词 [聚西佛碱, \$\pi\$ -共轭高分子, 金属配合物, 合成](#)

分类号

Novel π -Conjugated Poly(Schiff base) Containing Thiazole and Tetrathiatetrahydropentalene

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Abstract A new kind of π -conjugated heterocyclic poly(Schiff base) was firstly prepared by the condensation reaction between tetrathiatetrahydropentalene-type diketone and bithiazole-diamine in good yields. The polymers were characterized by VPO, FTIR and ^1H NMR spectroscopy. A large bathochromic shift was observed in UV-Vis spectra for these polymers due to the π - π^* transition in the conjugated main chain. Brief examination indicated that the nitrogen- and sulfur-containing polymers exhibited an excellent chelating tendency to metal ions and the corresponding polymeric complexes would be expected to have potential in applications.

Key words [poly\(Schiff base\)](#) [\$\pi\$ -conjugated polymer](#) [metal complex](#) [synthesis](#)

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