- [14] 刘湘生.电感耦合等离子体质谱法测定高纯氧化钇中 杂质元素[J].分析化学, 1999, 27 (7):782.
- [15] 何虹,诸爱士.分光光度法测定混合液中Co(II)、 Ni(II)含量分析[J].中国测试技术, 2007, 33 (6):19.
- [16] 刘立行, 沈春玉, 许宝岩.2-(5-溴-2-吡啶偶 氮)-5-二乙氨基苯酚分光光度法测定原油及环烷酸
- 钴中钴[J].冶金分析, 2006, 26(1):69.
- [17] 陈方平,胡余沛,荆运洁.镍钴电镀液中钴含量容量 分析法的改进[J].实验室科学, 2009, 8(5):77.
- [18] HG/T 4073—2008, 《新癸酸钴》[S].
- [19] Jackson E H.The Separation and Determination of Cobalt (II) and Cobalt (III) [J]. Anal. Chim. Acta. 1969, 45:101.

Separation and Determination of the Cobalt in Different Oxidation States in Cobalt Neodecanoate

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Abstract: The separation and determination of the cobalt in different oxidation states in cobalt neodecanoate were investigated. The effective separation of divalent cobalt, Co (II), and trivalent cobalt, Co (III), was carried out by using acetylacetonate since the formed complexes had different solubility. The determination of Co (II) content in cobalt neodecanoate was carried out by using complexometric titration and based on the difference in stability constant of the complexes. Through this method, separation and determination of the cobalt in self-made and commercial neodecanoate cobalt samples were successfully achieved.

Keywords: neodecanoate cobalt; cobalt content; complexometric titration; divalent cobalt; trivalent cobalt



燕山石化新碳五分离装置建成中交

日前,中国石化北京燕山石油化工公司 新的年产15万t碳五分离装置及其配套设施 建成中交。项目于2012年5月开工建设,主 要包括碳五主体装置、碳五罐区、汽车装卸 站、碳五罐区街区以及循环水、消防水、供 电等系统配套设施。碳五分离装置是燕山石 化的重点建设项目,可对乙烯装置副产碳五

馏分进行综合利用, 生产高附加值产品, 降低乙烯装置生产综合成本。装置投产后 主要生产异戊二烯、间戊二烯、环戊二烯 等。其中异戊二烯将作为公司年产3万t异 戊橡胶装置的主要生产原料,用于生产可 替代天然橡胶的异戊橡胶。

崔小明