

Title (en)

PROCESS OF PURIFYING AND PRODUCING HIGH PURITY AROMATIC POLYCARBOXYLIC ACIDS AND DERIVATIVES THEREOF

Title (de)

VERFAHREN ZUR REINIGUNG UND HERSTELLUNG VON HOCHREINEN AROMATISCHEN POLYCARBONSÄUREN UND DERIVATEN DAVON

Title (fr)

PROCEDE DE PURIFICATION ET DE FABRICATION D'ACIDES POLYCARBOXYLIQUES AROMATIQUES DE GRANDE PURETE ET DE LEURS DERIVES

Publication

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Application

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- US 10964898 P 19981124
- US 26749999 A 19990312
- US 28626299 A 19990405
- US 34748699 A 19990702

Abstract (en)

[origin: WO0031014A1] The present invention provides a solvent extraction purification method for aromatic polycarboxylic acids or derivatives that meet or exceed polymer-grade specification. The method includes dissolving a crude aromatic polycarboxylic acid or derivative in a base compound; removing impurities and excessive base compound; and removing residual base compound while making purified product. The purification method removes not only the impurities from the crude acid or derivative, but also the residual base compound from finished product that otherwise will contaminate the product. The salt in the cake is converted to product by acid-substitution, thermal decomposition, or electrolysis. The method uses base-extraction solvents to extract base compound and impurities from the salt. The residual base compound in the recovered product is then removed by leaching, stripping, thermal agitating with electromagnetic waves, or evaporation with thermal decomposition. The purification method allows eliminating crystallizers for crystallization and equipment for drying and pneumatically carrying. Finally, the purification method is combined with the oxidation and solvent recovery in prior art to use only one set of process steps, instead of two, to produce aromatic polycarboxylic acids or derivatives.

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- [X] GB 757455 A 19560919 - BATAAFSCHE PETROLEUM
- [X] GB 1003650 A 19650908 - TEIJIN LTD
- See references of WO 0031014A1

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