

Abstract

Disclosed are an alkylbenzene-containing desorbent and its use in the adsorption-separation of meta-aromatic, wherein the desorbent comprises or
5 consists of 20-100 wt% of an alkylbenzene compound of the following general formula (I) and 0-80 wt% of a C5-C14 saturated aliphatic hydrocarbon, wherein R₁, R₂ and R₃ are independently selected from C₁₋₄ chain alkyl groups, and R₄, R₅ and R₆ are independently selected from hydrogen, C₁₋₄ saturated hydrocarbon groups, C₁₋₄ alkoxy groups and
10 halogens. The desorbent has a wide range of sources and an adsorption selectivity that is more similar to the target product, which is beneficial for improving yield and purity of product.

FIG. 1