

## The Effects of Pressure Drop at Pressure Equalization Step and Cocurrent Depressurization Step in Four Bed PSA Process

안의섭, 양세일, 장성철, 최도영, 최대기\*  
한국과학기술연구원  
(dkchoi@kist.re.kr\*)

A pressure swing adsorption (PSA) process for production of high purity hydrogen was performed. The four bed and nine step process used were  $H_2/CO/CO_2/CH_4$  mixture in layered bed. The pressure drop at pressure equalization step and cocurrent depressurization step affected purity, recovery, and productivity of hydrogen in the process. In this study, The optimal condition with the pressure drop at pressure equalization step and cocurrent depressurization step were Investigated.