

ABSTRACT

A catalyst containing, as an essential component, molybdenum; bismuth; and cobalt, in which a sum (S) of ratios of peak intensities expressed by the following formula in an X-ray diffraction pattern obtained by using CuK α rays as an X-ray source is 42 or more and 113 or less.

$$S = \{(\text{peak intensity at } 2\theta = 14.1^\circ \pm 0.1^\circ) + (\text{peak intensity at } 2\theta = 25.4^\circ \pm 0.1^\circ) + (\text{peak intensity at } 2\theta = 28.5^\circ \pm 0.1^\circ)\} / (\text{peak intensity at } 2\theta = 26.5^\circ \pm 0.1^\circ) \times 100$$