

ABSTRACT

A process for producing an unsaturated nitrile such as acrylonitrile or methacrylonitrile by ammoxidation of an organic compound such as propylene, isobutene or tertiary butanol, which comprises carrying out the ammoxidation while controlling the organic acid/unreacted ammonia ratio in an ammoxidation product gas at 0.8 - 3.0 in a reactor, introducing the ammoxidation product gas into a quench tower, and reacting in the tower the unreacted ammonia with the organic acid produced in a reactor, to fix the unreacted ammonia as ammonium salt of the organic acid.

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