

# Actimet™ 8040P

## Activated Skeletal Nickel Catalyst

### General

BASF's Actimet™ catalysts are produced by dissolving the inactive components from mixed metal alloys, according to a process of the type developed by Raney. The properties of the skeletal metal catalyst are determined by the choice of metals, the leaching and washing procedures as well as the presence of promoters.

BASF has the capability to produce a wide range of different customized skeletal metal catalysts. Samples are available for immediate shipping. BASF's Actimet™ 8040P is a skeletal nickel catalyst promoted with molybdenum and used in a wide variety of hydrogenation reactions. The catalyst is highly accessible with excellent settling properties and is active at low temperatures (20–100°C). BASF Actimet™ 8040P is supplied immersed in water to protect it from air oxidation. In a dry state, it is pyrophoric.

### Product Application

BASF Actimet 8040P is particularly useful for the hydrogenation of nitriles to amines such as the conversion of adiponitrile to hexamethylenediamine. The catalyst is also useful for nitro-group reductions to amine compounds, e.g. the conversion of 2,4-dinitrotoluene to toluene-diamine.

### Availability

Research quantities are available by order through Strem Chemicals, Inc. at [www.strem.com/basf](http://www.strem.com/basf). Commercial quantities are available directly from BASF.

### Packaging

- 25 kg net in 64-liter steel drums
- Other sizes available upon request

### Target Properties

Nickel	92 wt%
Alumina	7 wt%
Molybdenum	1 wt%
Particle Size Distribution	95% within 0–80 microns
Average Particle Size	35 microns
pH of Supernatant	11

## About Us

BASF is a leading global manufacturer of catalysts for the chemical industry, with solutions across the chemical value chain. The business comprises chemical catalysts and adsorbents, refinery catalysts and custom catalysts. In the process catalysts business, priority is given to developing new and improved products that enable the chemical industry transformation to net-zero emissions.

The division's portfolio also includes battery materials and recycling solutions, as well as environmental catalysts and metal solutions. Customers from a variety of industries including Automotive & Transportation, Chemicals, Plastics or Energy & Resources benefit from our innovative solutions. Further information on BASF's Catalysts division is available on the Internet at [www.catalysts.basf.com](http://www.catalysts.basf.com).

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