

# Actimet™ 8040P

## Activated Skeletal Nickel Catalyst

### Description

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 different 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.

### Availability

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

### Typical Applications

BASF Actimet 8040P is particularly useful for the hydrogenation of nitriles to amines such as 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.

### Packaging

- 104 kg net in 113L steel drums
- Other packaging 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's Catalysts division is the world's leading supplier of environmental and process catalysts. The group offers exceptional expertise in the development of technologies that protect the air we breathe, produce the fuels that power our world and ensure efficient production of a wide variety of chemicals, plastics and other products, including advanced battery materials. By leveraging our industry-leading R&D platforms, passion for innovation and deep knowledge of precious and base metals, BASF's Catalysts division develops unique, proprietary solutions that drive customer success.

**BASF - We create chemistry**

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