

3050 Spruce Street, Saint Louis, MO 63103, USA

Website: [www.sigmaaldrich.com](http://www.sigmaaldrich.com)Email USA: [techserv@sial.com](mailto:techserv@sial.com)Outside USA: [eurtechserv@sial.com](mailto:eurtechserv@sial.com)

## Product Specification

Product Name:

Iron – nanopowder, 35–45 nm particle size, 99.5% trace metals basis

Product Number:

746843

CAS Number:

7439-89-6

Formula:

Fe

Formula Weight:

55.85 g/mol

Fe

### TEST

### Specification

Appearance (Color)

Black

Appearance (Form)

Powder

X-Ray Diffraction

Conforms to Structure

Size

Confirmed

35-45 nm

Oxygen (O)

Confirmed

&lt;3 wt%

ICP Major Analysis

Confirmed

Confirms Iron Component

Trace Metal Analysis

≤ 5500.0 ppm

Purity

Meets Requirements

99.5% Based On Trace Metals Analysis

Specification: PRD.0.ZQ5.10000045985

Sigma-Aldrich warrants, that at the time of the quality release or subsequent retest date this product conformed to the information contained in this publication. The current Specification sheet may be available at [Sigma-Aldrich.com](http://Sigma-Aldrich.com). For further inquiries, please contact Technical Service. Purchaser must determine the suitability of the product for its particular use. See reverse side of invoice or packing slip for additional terms and conditions of sale.