# Barium Sulphate IP

## Product Identifier

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>CAS No.</td>
<td>7727-43-7</td>
</tr>
<tr>
<td>EC No.</td>
<td>231-784-4</td>
</tr>
<tr>
<td>Molecular Formula</td>
<td>BaSO₄</td>
</tr>
<tr>
<td>Molecular Weight</td>
<td>233.39</td>
</tr>
<tr>
<td>Synonym</td>
<td>Barium sulfate; Baryte</td>
</tr>
<tr>
<td>HS Code</td>
<td>2833 27 00</td>
</tr>
<tr>
<td>Storage</td>
<td>Below 30°C</td>
</tr>
<tr>
<td>Shelf life</td>
<td>3 years</td>
</tr>
</tbody>
</table>

## Technical Specification

### Appearance
A fine, heavy, white powder, free from gritty particles; odourless.

### Solubility
33.3 mg soluble in 1 mL of hot concentrated sulphuric acid.

### Identification A
Reactions for sulphates.

### Identification B
A white precipitate formed is insoluble in dilute sodium hydroxide solution.

### Acidity or alkalinity
\[ \leq 0.5 \text{ mL of 0.01 M hydrochloric acid or sodium hydroxide is required} \]

### Arsenic (As)
\[ \leq 0.0002\% \]

### Heavy metals (as Pb)
\[ \leq 0.001\% \]

### Phosphate (PO₄)
No yellow precipitate is formed.

### Sulphide (S)
The paper does not darken.

### Acid-soluble substances
\[ \leq 0.3\% \]

### Soluble barium salts
No turbidity is produced.

### Loss on Ignition (at 600°C)
\[ \leq 2.5\% \]

## Safety Information

### UN No.
Not dangerous goods.

### Class
- 

### Packing Group
- 

### RTECS
CR0600000

### WGK
3