Iron carbonyl (pentacarbonyl iron), Fe (CO) 5, is an oily liquid. It is pyrophoric in air and burns to Fe2O3 (Iron [III] oxide). It decomposes by light to Fe 2 (CO) 9 and CO. It is insoluble in water however readily soluble in most organic solvents for instance ether, acetone, ethyl acetate and slightly soluble in alcohol. Iron pentacarbonyl is synthesized from iron (and iron compounds) and CO. Iron pentacarbonyl is utilized as an anti-knock agent in petrol. Fe (CO) 5 is employed in the production of carbonyl iron and it is a finely divided form of Fe. It is a material that is employed in magnetic cores of high-frequency coils for radios and televisions. It also applied for the fabrication of the active ingredients of some radar absorbent materials, for example, iron ball paint.

APPLICATIONS

- Anti-knock Agent In Petrol
- Employed In Magnetic Cores Of
  High-frequency Coils For Radios And Televisions
- Radar Absorbent Materials

CALL NOW

+91 9779550077
9779238252
Additional Powder Characteristics

<table>
<thead>
<tr>
<th>Stock No.</th>
<th>Purity</th>
<th>APS</th>
</tr>
</thead>
<tbody>
<tr>
<td>NS6130-12-001132</td>
<td>99.9%</td>
<td>40-60μm</td>
</tr>
</tbody>
</table>

Technical Specification

<table>
<thead>
<tr>
<th>Molecular Formula</th>
<th>Molecular Weight</th>
<th>Density</th>
<th>Melting Point</th>
<th>Boiling Point</th>
</tr>
</thead>
<tbody>
<tr>
<td>Fe(CO)₅</td>
<td>195.90g/mol</td>
<td>1.49 g/cm³</td>
<td>-20°C</td>
<td>103°C</td>
</tr>
</tbody>
</table>

Properties

✓ Chemical Formula: Fe (CO)₅
✓ CAS No.: 13463-40-6

Chemical Composition

<table>
<thead>
<tr>
<th>Product</th>
<th>Weight Percent (nominal)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Fe(CO)₅</td>
<td>Other Metal</td>
</tr>
<tr>
<td>Iron 0 pentacarbonyl</td>
<td>99.9 %</td>
</tr>
</tbody>
</table>

Ordering Information and Stock Availability

✓ Product: Iron 0 pentacarbonyl
✓ Stock Availability: Available
✓ Distribution: Global
✓ Packing Sizes: 25Gms, 50Gms, 100Gms, 500Gms & Bulk Orders

Handling Recommendations

✓ Store in the original container in a dry location.
✓ Tumble contents prior to use to prevent segregation.
✓ Open containers should be stored in a drying oven to prevent moisture pickup.

Safety Recommendations

Download MSDS/SDS NS6130-12-001132
SDS are available from the Nanoshel Website at https://www.nanoshel.com/product/iron-0-pentacarbonyl

www.nanoshel.com | sales@nanoshel.com
Tel: +91 9779550077, 9779238252

Make your innovations better with NANOSEL