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## Iron, 99%, powder, -70 mesh (&lt;212 micron)

[MSDS](#) [Specifications](#) [Applications](#) [Categories](#) [Molfile](#) [Other grades](#)

General																
Product Name	Iron															
CAS RN	7439-89-6															
ACD Code	MFCD00010999															
Structure																
Molecular Formula	Fe															
Molecular weight	55.85															
Keyword																
Pack size	{Error}															
Physical																
Density (g/cm <sup>3</sup> )	7.86															
Boiling Point (°C)	3000															
Melting Point (°C)	1535															
Safety																
GHS Pictogram																
GHS Signal Word	Warning															
GHS H statement	H228: Flammable solid															
GHS P statement	P210: Keep away from heat/sparks/open flames/hot surfaces. - No smoking															
Hazard	F: Highly flammable															
Risk	11: Highly flammable.															
Categories																
Preparation, Purification and Analysis > Routine Reagents Functional Reagents > Catalysis and Inorganic Chemistry > Iron Preparation, Purification and Analysis > Analytical Reagents for General Use																
Applications																
	<table border="1"> <thead> <tr> <th>Function</th> <th>Transformation</th> <th>Type</th> <th>Caveat</th> <th>Reference</th> </tr> </thead> <tbody> <tr> <td><a href="#">Reagent</a></td> <td><a href="#">Lactonization, lactamization</a></td> <td><a href="#">lactonization</a></td> <td>Lactonization of g-halo-a,b-unsaturated carboxylic methyl esters and acids is promoted with iron powder.</td> <td>HCA 1970, 53, 403</td> </tr> <tr> <td><a href="#">Reagent</a></td> <td><a href="#">Reduction</a></td> <td><a href="#">Nitro to amine</a></td> <td>Iron in HCl is used for this reduction.</td> <td>Recl. Trav. Chim. Pays-Bas 1961, 80, 1075</td> </tr> </tbody> </table>	Function	Transformation	Type	Caveat	Reference	<a href="#">Reagent</a>	<a href="#">Lactonization, lactamization</a>	<a href="#">lactonization</a>	Lactonization of g-halo-a,b-unsaturated carboxylic methyl esters and acids is promoted with iron powder.	HCA 1970, 53, 403	<a href="#">Reagent</a>	<a href="#">Reduction</a>	<a href="#">Nitro to amine</a>	Iron in HCl is used for this reduction.	Recl. Trav. Chim. Pays-Bas 1961, 80, 1075
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Parameter	EINECS 231-096-4 Solubility Solubility in water: insoluble Origin synthetic Reference: Fieser 01,519; 02,229; 03,167; 05,357; 09,257; 14,184; 16,189; 17,157 Reference: Merck 15,5137															