

# Product Data Sheet

## (5N) 99.999% Yttrium Iron Garnet - YIG Powder

Product Code: Y-FEG-05-P

**Formula:**  $Y_3Fe_5O_{12}$   
**CAS No.:** 12063-56-8  
**EC No.:** 235-053-0  
**MDL:** MFCD00210618

### Chemical Identifiers

Linear Formula	$Y_3Fe_5O_{12}$
MDL Number	MFCD00210618
EC No.	235-053-0
Beilstein Registry No.	N/A
Pubchem CID	16217670
IUPAC Name	oxo(oxoferriooxy)iron; oxo(oxoferriooxy)yttrium; oxo(oxoyttriooxy)yttrium
SMILES	<chem>O=[Fe]O[Fe]=O.O.O=[Fe]O[Fe]=O.O.O=[Fe]O[Y]=O.O.O=[Y]O[Y]=O</chem>
Inchl Identifier	InChI=1S/5Fe.12O.3Y
Inchl Key	UVXIKKWNYPENJ-UHFFFAOYSA-N

**Total Metal Impurities:** 0.001% max.

### Packaging Specifications

Typical bulk packaging includes palletized plastic 5 gallon/25 kg. pails, fiber and steel drums to 1 ton super sacks in full container (FCL) or truck load (T/L) quantities. Research and sample quantities and hygroscopic, oxidizing or other air sensitive materials may be packaged under argon or vacuum. Shipping documentation includes a Certificate of Analysis and Safety Data Sheet (SDS). Solutions are packaged in polypropylene, plastic or glass jars up to palletized 440 gallon liquid totes, and 36,000 lb. tanker trucks.

**Documentation**

A Certificate of Analysis and Materials Safety Data Sheet (SDS) in accordance with EN 10204 are supplied with every shipment.