

# Product Data Sheet

## (2N) 99% Bismuth Germanate

Product Code: BI-GEO-02-C

Formula: Bi<sub>4</sub>Ge<sub>3</sub>O<sub>12</sub>  
 CAS No.: 12233-56-6  
 EC No.: 235-457-7  
 MDL: MFCD00064629

### Chemical Identifiers

Linear Formula	Bi <sub>4</sub> Ge <sub>3</sub> O <sub>12</sub>
MDL Number	MFCD00064629
EC No.	235-457-7
Pubchem CID	N/A
IUPAC Name	N/A
SMILES	[O-][Ge]([O-])([O-])[O-].[O-][Ge]([O-])([O-])[O-].[O-][Ge]([O-])([O-])[O-].[Bi+3].[Bi+3].[Bi+3].[Bi+3]
Inchl Identifier	InChI=1S/4Bi.3GeO4/c;;;;;3*2-1(3,4)5/q4*+3;3*-4
Inchl Key	VJODIOLUNZQTKP-UHFFFAOYSA-N

**Total Metal Impurities:** 1.0% 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.