

Nomenclature:	Bismuth oxide Trioxyde de dibismuth Dibismuth trioxide	Bismuthous oxide Bismuth trioxide Bismuth sesquioxide
Formula:	Bi ₂ O ₃	
CAS Number:	1304-76-3	
Inventory status:	TSCA EINECS (No.: 215-134-7)	EPA ENCS (No.: 1-98)
		DSL AICS

Chemical Data:

	Specification	Typical value
Bismuth Oxide	min. 99.9%	
Total metallic Impurities	max. 0.1%	
Bismuth, dry	89.3 – 90.1%	89.7%
Fe	max. 150 ppm	50 ppm
Na	max. 150 ppm	< 50 ppm
Ag	max. 15 ppm	10 ppm
Cu, Pb	max. 10 ppm	< 5 ppm
Cl, SO ₄	max. 10 ppm	< 10 ppm
Loss on drying	max. 0.2%	< 0.1%

Morphological and Physical Data:

	Specification	Typical value
Particle size:		
d50(Helos/Rodos)	max. 10 µm	7 µm
D _{SEM}		5 – 15 µm
Appearance		yellow powder
Tapped density		3 – 6 g/cm ³
Density (theor.)	8.5–9.4 g/cm ³	
Molecular weight	465.96	

Regulatory Information:

RoHS	The material complies with RoHS/WEEE/ELV-regulation (2002/95/EC and 2002/96/EC): Pb, Hg, Cr(VI), PBB, PBDE: each < 1000 ppm Cd: < 100 ppm
REACH	Product is registered acc. to REACH-regulation (EC 1907/2006)

Particle Size Distribution:

