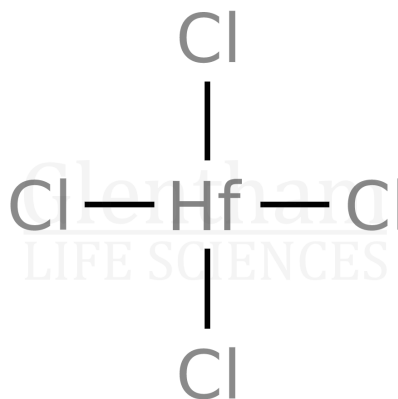


Certificate of Analysis

Product Name	Hafnium chloride, 98%
Glentham Code	GX5747
CAS Number	13499-05-3
Batch Number	688NHI

Molecular Weight	320.19
Molecular Formula	HfCl ₄
Storage Temp.	+20°C



Property	Specification	Batch 688NHI
Physical Description	White to almost white powder	Conforms
Zirconium (Zr)	≤ 3.0%	2.4%
Assay	≥ 97.5%	Conforms
Content	≥ 99% (Hf + Zr)	≥ 99%

Specification Version	v1.0
Manufacture Date	2019-06-11
Re-Test Date	2028-06-10

Glentham Life Sciences confirm that the above referenced product conformed to the information displayed in this document on the quality release date. Please check www.glentham.com or contact us using the details above for the current version of this document.

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