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Certificate of analysis

Reference #: 029/226

Manufacturing date Jan/11/21

Analysis date Jan/14/21

Product name	Tetrakis(dimethylamino)hafnium, 98+% (99.9 % - Hf)				
Ereztech #	HF2684	CAS#	19782-68-4	Purity	99.0% (by gravimetric assay)
Lot/batch #	029/226	Net weight/volume	365 g	Seal #	N/A
Packaging	1 glass ampule	Storage	Moisture sensitive (store cold). Shelf life 1 year.		
CofO	Russia				

Analytical results				
Appearance	Light yellow crystalline solid			
NMR H1	conforms to structure			
Gravimetric assay	% Hf = 49.81 %(after ignition to oxide)			
Purity	99.0%			
ICP	99.9%			
Impurity weight, ppm	Al	40	Mn	10
	Ca	30	Mo	10
	Co	10	Nb	12
	Cr	30	Ni	20
	Cu	15	Sn	30
	Fe	45		
	Mg	10		