



Certificate of analysis

Reference #: 2019073-019/275

Manufacturing date Nov/28/19

Analysis date Dec/02/19

Product name	Tantalum tetraethoxy dimethylaminoethoxide, 98% (99.99% - Ta)				
Product code	TA1223	CAS#	172901-22-3	Purity	98.69% (by integration NMR)
Lot/batch #	019/275	Net Weight	100g	Country of origin	Russia
Packaging	1 glass ampule	Storage	Moisture, air sensitive. Shelf life 1 year		

Analytical results	
Appearance	Colorless liquid
NMR H1	Conforms to structure
Purity	98.69%
ICP	>99.99% - Ta
ICP, ppm	Co<0.03 Nb=3.8 Al=0.5 W<0.09 Cr=0.3 Ca=10.0 Fe=5 Mo<0.06 Ni=0.2 Si=10.0 Sn<0.06 Ti=1.2 Mn=0.1