

Evaporant name	Ag	Density (g/cm3)	10.500	
Atomic number	47	Z factor	0.529	
Atomic/molar mass (g/mol)	107.8682	Database	Completed	
Physical properties		Operational details		
Tm (oC)	962	Ramp temp T1 (oC)	N/A	
Tv (oC) at 1e-8 Torr	847	Temp. change rate 1 (oC/ min)	N/A	(RT ~ Ti)
Tv (oC) at 1e-4 Torr	1105	Ramp temp. T2 (oC)	N/A	
Chemical properties		Temp. change rate 2 (oC/ min)	N/A	(Ti ~ T')
Sensitivity to air	sensitive	Estimated Tg (oC)	912	
Sensitivity to moisture	N/A	Temp. change rate 3 (oC/ min)	N/A	(T' ~ Tg)
Toxicity to human body	N/A	Maximum set point (oC)	N/A	
Flamability	N/A	Expected growth rate (A/s)	N/A	
Radioactivity	N/A	Source shape	pellets	
Conditions to avoid	exposure to air, (strong) acids, strong bases, ammoia, oxygen	Sealing / Handling	in air	in air
Method of disposal	Offer surplus and non-recyclable solutions to a licensed disposal company. Dissolve or mix the material with a combustible solvent and burn in a chemical incinerator equipped with an afterburner and scrubber. Waste material must be disposed of in accordance with the Directive on waste 2008/98/EC as well as other national and local regulations. Leave chemicals in original containers. No mixing with other waste. Handle uncleaned containers like the product itself. Dispose contaminated packaging as unsued product.	Cell type / Crucible volume (cc)	e-beam	15 cc (e-beam)
		Cell position / Crucible material	E-beam 1	W
Notes				
Molten source				
Evaporation category	Category III: Avoid using as much as possible. Handle with extreme care and take out the cell regularly to investigate the crucible/cell condition.			
Notes	Use gloves when handling, in glovebox.			
Past records	- 25/09/2019 ~ 03/02/2020, DF (9808-03), Al2O3, the crucible was broken due to rapid change in temperature across the melting tempearture - 24/02/2020 ~ , e-beam, W			
Date	16/03/2020	Main user name	Yoshiko Nanao	