

## Lead-barium glass - Constituents

Art. ID	NIST-89
Unit	45 g
Deliverydetails	No Dangerous Good /not restricted

### Description

This Standard Reference Material (SRM) is intended primarily for use in validation of chemical and instrumental methods of analysis for element contents of lead-barium glass and materials of similar matrix. It can be used to validate value assignment of in-house reference materials. A unit of SRM 89 consists of one bottle containing approximately 45 g of powder. /// Sample value(s) - please ask for current certificate.

Text/Information	Analyte/Parameter	CAS number	Concentration/Value	Unit	Method	Source
Certified Mass Fraction Value	Chlorine (Cl)	[7782-50-5]	0,0517 ± 0,0052	%		
Certified Mass Fraction Value	Al <sub>2</sub> O <sub>3</sub>		0,155 ± 0,023	%		
Certified Mass Fraction Value	As <sub>2</sub> O <sub>3</sub>		0,0440 ± 0,0035	%		
Certified Mass Fraction Value	As <sub>2</sub> O <sub>5</sub>		0,363 ± 0,030	%		
Certified Mass Fraction Value	BaO		1,423 ± 0,033	%		
Certified Mass Fraction Value	CaO		0,197 ± 0,027	%		
Certified Mass Fraction Value	Fe <sub>2</sub> O <sub>3</sub>		0,0487 ± 0,0029	%		
Certified Mass Fraction Value	K <sub>2</sub> O		8,323 ± 0,087	%		
Certified Mass Fraction Value	MgO	[1309-48-4]	0,0332 ± 0,0051	%		
Certified Mass Fraction Value	MnO		0,081 ± 0,015	%		
Certified Mass Fraction Value	Na <sub>2</sub> O		5,73 ± 0,11	%		
Certified Mass Fraction Value	P <sub>2</sub> O <sub>5</sub>		0,233 ± 0,027	%		
Certified Mass Fraction Value	PbO		17,436 ± 0,063	%		
Certified Mass Fraction	SiO <sub>2</sub>		65,33 ± 0,20	%		

Value			
Certified Mass Fraction	SO <sub>3</sub>	0,034 ± 0,014	%
Value			
Certified Mass Fraction	TiO <sub>2</sub>	0,0136 ± 0,014	%
Value			
Reference Mass Fraction	ZrO <sub>2</sub>	0,0045 ± 0,0013	%
Value			
Reference Mass Fraction	LOI	0,321 ± 0,078	%
Value			