

Polystyrene - Heat capacity and molecular weight

Art. ID	NIST-705a
Unit	5 g
Deliverydetails	No Dangerous Good /not restricted

Description

This Standard Reference Material (SRM®) is intended for use in the calibration of instruments used in polymer science and technology for the determination of molecular weight and for use in checking dynamic thermal analytical instruments. The SRM® is supplied in small white slender rodlets of polystyrene in a 5 g unit. Molecular weight (MW) values, measured using various techniques, and limiting viscosity (LV) numbers. /// Sample value(s) - please ask for current certificate.

Text/Information	Analyte/Parameter	CAS number	Concentration/Value	Unit	Method	Source
Numer-average molecular weight, Mn, g/mol	Number-average molecular weight (Mn)		170900	g/mol	Membrane osmometry	
Weight-average molecular weight, Mw, g/mol	Weight-average molar mass (Mw)		179300	g/mol	Light scattering	
Weight-average molecular weight, Mw, g/mol	Weight-average molar mass (Mw)		189800	g/mol	Sedimentation equilibrium	
at 25 Grad Celsius in benzene	Limiting viscosity number		74,3	mL/g		
at 25 Grad Celsius in cyclohexane	Limiting viscosity number		35,4	mL/g		
Ratios of molecular weight	Mz:Mw:Mn		1,12 : 1,07 : 1			
Please ask for the current certificate	Heat capacity					