

## Polystyrene film - IR transmission wavelength

Art. ID	NIST-1921b
Unit	1 card
Deliverydetails	No Dangerous Good /not restricted

### Description

This Standard Reference Material® (SRM®) is intended primarily for use in calibrating the wavelength (wavenumber) scale of spectrophotometers in the infrared (IR) spectral region from 3.2 µm to 18.5 µm (540 cm<sup>-1</sup> to 3125 cm<sup>-1</sup>). NIST-1921b is a matt finish polystyrene film approximately 38 µm thick with a 25 mm diameter exposed area, centered 38 mm from the bottom of a cardboard holder, which is 5 cm x 11 cm x 0.2 cm in size. /// Sample value(s) - please ask for current certificate.

Text/Information	Analyte/Parameter	CAS number	Concentration/Value	Unit	Method	Source
Band Number 1	Band Centroid Wavelength h		18,3512	µm		
Band Number 2	Band Centroid Wavelength h		11,8751	µm		
Band Number 3	Band Centroid Wavelength h		11,0276	µm		
Band Number 4	Band Centroid Wavelength h		9,7237	µm		
Band Number 5	Band Centroid Wavelength h		9,3522	µm		
Band Number 6	Band Centroid Wavelength h		8,6608	µm		
Band Number 7	Band Centroid Wavelength h		6,3169	µm		
Band Number 8	Band Centroid Wavelength h		6,2446	µm		
Band Number 10	Band Centroid Wavelength h		3,50853	µm		
Band Number 11	Band Centroid Wavelength h		3,33178	µm		
Band Number 12	Band Centroid Wavelength h		3,30421	µm		
Band Number 13	Band Centroid Wavelength h		3,26782	µm		
Band Number 14	Band Centroid Wavelength h		3,24442	µm		
Band Number 1	Band Centroid Wavenumber		544,92	cm <sup>-1</sup>		

	r		
Band Number 2	Band Centroid Wavenumber	842,1	cm-1
	r		
Band Number 3	Band Centroid Wavenumber	906,82	cm-1
	r		
Band Number 4	Band Centroid Wavenumber	1028,42	cm-1
	r		
Band Number 5	Band Centroid Wavenumber	1069,27	cm-1
	r		
Band Number 6	Band Centroid Wavenumber	1154,62	cm-1
	r		
Band Number 7	Band Centroid Wavenumber	1583,04	cm-1
	r		
Band Number 8	Band Centroid Wavenumber	1601,38	cm-1
	r		
Band Number 10	Band Centroid Wavenumber	2850,2	cm-1
	r		
Band Number 11	Band Centroid Wavenumber	3001,4	cm-1
	r		
Band Number 12	Band Centroid Wavenumber	3026,44	cm-1
	r		
Band Number 13	Band Centroid Wavenumber	3060,14	cm-1
	r		
Band Number 14	Band Centroid Wavenumber	3082,22	cm-1
	r		
Band Number 1	Band Minimum Wavelength	18,5385	µm
Band Number 2	Band Minimum Wavelength	11,8793	µm
Band Number 3	Band Minimum Wavelength	11,0297	µm
Band Number 4	Band Minimum Wavelength	9,725	µm
Band Number 5	Band Minimum Wavelength	9,3525	µm
Band Number 6	Band Minimum Wavelength	8,6617	µm
Band Number 7	Band Minimum Wavelength	6,3172	µm
Band Number 8	Band Minimum Wavelength	6,2448	µm
Band Number 9	Band Minimum Wavelength	5,1467	µm
Band Number 10	Band Minimum Wavelength	3,50938	µm
Band Number 11	Band Minimum Wavelength	3,33197	µm
Band Number 12	Band Minimum Wavelength	3,30467	µm
Band Number 13	Band Minimum Wavelength	3,26778	µm

Band Number 14	Band Minimum Wavelength	3,24435	µm
Band Number 1	Band Minimum Wavenumb	539,41	cm-1
Band Number 2	Band Minimum Wavenumb	841,79	cm-1
Band Number 3	Band Minimum Wavenumb	906,63	cm-1
Band Number 4	Band Minimum Wavenumb	1028,27	cm-1
Band Number 5	Band Minimum Wavenumb	1069,22	cm-1
Band Number 6	Band Minimum Wavenumb	1154,5	cm-1
Band Number 7	Band Minimum Wavenumb	1582,98	cm-1
Band Number 8	Band Minimum Wavenumb	1601,29	cm-1
Band Number 9	Band Minimum Wavenumb	1942,97	cm-1
Band Number 10	Band Minimum Wavenumb	2849,48	cm-1
Band Number 11	Band Minimum Wavenumb	3001,2	cm-1
Band Number 12	Band Minimum Wavenumb	3025,99	cm-1
Band Number 13	Band Minimum Wavenumb	3060,16	cm-1
Band Number 14	Band Minimum Wavenumb	3082,26	cm-1