

Av. dos Parques, 45 - Andar 10, Sala 1002B
Tamboré – Santana do Parnaíba - SP
CEP: 06544-300
E-mail: contato@jasco.com.br
Web: www.jasco.com.br



JASCO CERTIFIED ATR STANDARD

NºJ031/2024

The ATR Validation Standard is a flexible silicone material with certified values intended for use in calibrating the ATR accessory of spectrophotometers in the infrared (IR) spectral region from 500 cm⁻¹ to 4000 cm⁻¹.

ATR Validation Standard is certified on a Jasco FT/IR-4X Series Spectrometer – serial number A018362111 which has been calibrated with NIST certified polystyrene film (SRM-1921b), which is the NIST primary standard.

The instrument room temperature was maintained at 23 °C ± 1 °C and the humidity ranged from 30 % to 50 % during the measurements.

Standard Identification:

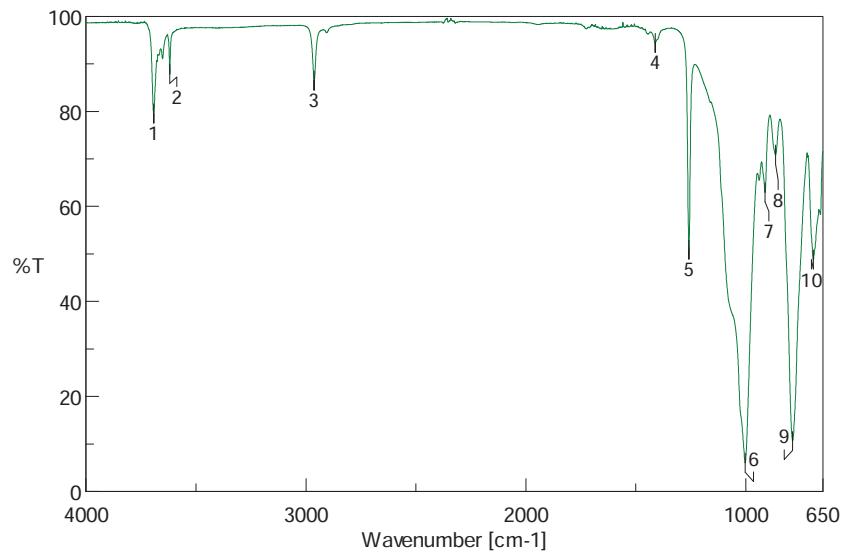
TAG: **ATR-01**
Description: **MRC-910-ATR**
Serial Number: **0140**

Parameters used in this measurement:

Light source	Standard
Detector	TGS
Accumulation	64
Resolution	4 cm ⁻¹
Zero filling	On
Apodization	Cosine
Gain	Auto (4)
Aperture	Auto (7 mm)
Scan speed	Auto (2 mm/sec)
Filter	Auto (12800 Hz)

Results:

Band Number	Expected Position of the Wavenumber [cm ⁻¹]	Measured Position of the Wavenumber [cm ⁻¹]	Difference [cm ⁻¹]	Acceptance criterion [$\pm 0.5 \text{ cm}^{-1}$]
1	3692.70	3692.53	0.170	Approved
2	3619.36	3619.25	0.110	Approved
3	2962.26	2962.28	0.020	Approved
4	1412.41	1412.60	0.190	Approved
5	1258.10	1258.18	0.080	Approved
6	1007.30	1007.26	0.040	Approved
7	912.51	912.165	0.345	Approved
8	864.81	864.917	0.107	Approved
9	785.95	786.007	0.057	Approved
10	693.64	693.284	0.356	Approved

Spectrum:

The expiration data is, as noted below, is 5 years from the date of validation.

Calibrated by: _____ Roberto Cruz

Date Certified: _____ January 08, 2024

Expiration Date: _____ January 08, 2029

Roberto Cruz

Digitally signed by Roberto Cruz
 DN: cn=Roberto Cruz, o=Jasco,
 ou=Service,
 email=rccruz@jasco.com.br, c=US
 Date: 2024.01.08 11:58:19 -03'00'