

VITRON
M³ Measurement Solutions Inc. Results
April 3, 2024

Material: ZnS (MS)

Values / Uncertainties

Description	Value / Uncertainty
Apex Angle of Prism (Deg)	19.74966+/- .00027 Deg
Temperature	+/- .1 Deg C
Wavelength (300-1500nm)	+/- 0.05%
Wavelength (1200-3500nm)	+/- 0.05%
Wavelength (2500-7000nm)	+/- 0.05%
Wavelength (7000-16000nm)	+/- 0.05%
Angular Measurements	+/- 0.00027 Deg
Refractive Index	+-.0002

Data Summary: ZnS

All index of refraction values are referenced to air.

<u>Wavelength (um)</u>	<u>n</u>	<u>Temperature (C)</u>
1.00	2.29173	19.16
1.50	2.27211	19.19
2.00	2.26465	19.10
2.50	2.26048	19.04
3.00	2.25738	19.23
3.50	2.25455	19.24
4.00	2.25188	19.17
4.50	2.24904	19.08
5.00	2.24621	18.96
5.50	2.24311	19.41
6.00	2.23989	19.03
7.00	2.23224	19.19
8.00	2.22337	19.00
9.00	2.21286	19.29
10.00	2.20082	19.01
11.00	2.18691	19.07
12.00	2.17100	19.00
13.00	2.15279	19.04

Please see spreadsheet provided for temperature data.