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Atmospheric Chemistry and Physics Discussions

Interactive comment on "A Complete Parameterization of the Relative Humidity and Wavelength Dependence of the Refractive Index of Hygroscopic Inorganic Aerosol Particles" *by* Michael I. Cotterell et al.

Anonymous Referee #1

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Review of "A Complete Parameterization of the Relative Humidity and Wavelength Dependence of the Refractive Index of Hygroscopic Inorganic Aerosol Particles" by Cotterell et al.

This study reports on measurements using single particle cavity ring-down spectroscopy to derive refractive index values as a function of both wavelength (400 – 650 nm) and relative humidity for numerous inorganic solutes of atmospheric relevance. The topic of this paper is of relevance to this journal and it is of important to the research community as information related to refractive index is critical for quantifying

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Discussion paper

aerosol radiative forcing and various optical properties.

The paper is written very well and easy to follow. The title is reflective of the manuscript's content. The methods applied were solid and the conclusions reached are supported by the data. Tables and Figures are presented nicely. I find this piece of work to be a nice contribution to the literature relevant to refractive index and recommend its publication.

Interactive comment on Atmos. Chem. Phys. Discuss., doi:10.5194/acp-2017-276, 2017.

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