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A Catalog of Optical Extinction Data for Various Aerosols/Smokes

Authors: [Merrill Milham](#); [EDGEWOOD ARSENAL ABERDEEN PROVING GROUND MD](#)

Abstract: Extinction spectra in the 3- to 5-, 8- to 13-, and 0.4 to 2.4- micrometer spectral region have been obtained for FS (Chlorosulfonic acid + Free SO₃), **red phosphorus**, HC (Zinc oxide, Aluminum, Hexachloroethane), and fog oil smokes. A limited number of theoretical **pred**ictions based on Mie theory are also presented and compar**ed** with the experimental results. The experimental and computational procedures are described in some detail. These findings are subject to revision; the final report will be published later.

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