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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 predictions based on Mie theory are also presented and compared 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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