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Accession number:20115114605856

Title:Molecular terahertz polarizability of PCH5, PCH7, and 5OCB

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Source title:Journal of Infrared, Millimeter, and Terahertz Waves

Abbreviated source title:J. Infrared. Millim. Terahertz Waves

Volume:32

Issue:12

Issue date:December 2011

Publication year:2011

Pages:1367-1370

Language:English

ISSN:18666892

E-ISSN:18666906

Document type:Journal article (JA)

Publisher:Springer New York, 233 Springer Street, New York, NY 10013-1578, United States

Abstract:In this letter we determine the principal and main polarizabilities of the nematic liquid crystals PCH5, PCH7 and 5OCB. The polarizabilities are calculated from the terahertz refractive indices using Vuks' approximation. 5OCB, which has two phenyl rings in its core, shows the highest terahertz anisotropy.

Number of references:25