



Depolarized light scattering by CF₄

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Type de publication	Article de revue
Auteur	Elliasmine, A. [1], Godet, Jean-Luc [2], Le Duff, Yves [3], Bancewicz, Tadeusz [4]
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Résumé en anglais	<p>Tetrafluoromethane gas depolarized scattering has been recorded at 294.5 K and 20.3 amagat in the frequency range 2-340 cm⁻¹. Two-body depolarized scattered intensities have been measured in absolute units up to 150\,cm⁻¹. Theoretical intensities taking into account multipolar polarizabilities and several hyperpolarizability contributions have been calculated. From comparison with experiment, the independent components of the dipole-quadrupole and the dipole-octopole polarizability tensors have been estimated and checked with recent <i>ab initio</i> theoretical values.</p>
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[1] [http://okina.univ-angers.fr/publications?f\[author\]=23892](http://okina.univ-angers.fr/publications?f[author]=23892)

[2] <http://okina.univ-angers.fr/jl.godet/publications>

[3] [http://okina.univ-angers.fr/publications?f\[author\]=23828](http://okina.univ-angers.fr/publications?f[author]=23828)

[4] [http://okina.univ-angers.fr/publications?f\[author\]=8568](http://okina.univ-angers.fr/publications?f[author]=8568)

[5] <http://okina.univ-angers.fr/publications/ua13949>

[6] <http://dx.doi.org/10.1080/002689797172633>

[7] http://www.researchgate.net/publication/234053609_Collision-induced_depolarized_light_scattering_by_CF4

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