



## Collision-induced scattering in CO<sub>2</sub> gas

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Titre Collision-induced scattering in CO<sub>2</sub> gas

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Auteur Teboul, Victor [1], Le Duff, Yves [2], Bancewicz, Tadeusz [3]

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Résumé en anglais Carbon-dioxide gas rototranslational scattering has been measured at 294.5 K in the frequency range 10–1000 cm<sup>-1</sup> at 23 amagat. The depolarization ratio of scattered intensities in the frequency range 10–1000 cm<sup>-1</sup> is recorded. The theoretical and experimental spectra in the frequency range 10–470 cm<sup>-1</sup> are compared. The anisotropic double differential cross section for scattered light is calculated theoretically considering first- and second-order dipole-induced dipole, first-order dipole-induced octopole, and first-order dipole-dipole-quadrupole light scattering mechanisms as well as their cross contributions.

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