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RECENT LINE-SHAPE STUDIES INVOLVING TRANSITIONS OF ACETYLENE BROADENED BY CARBON DIOXIDE

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The line parameters for transitions of acetylene broadened by carbon dioxide are needed for studies of planetary atmospheres that have a high content of carbon dioxide. carbon dioxide-broadened line widths and nitrogen-pressure induced line shifts have been measured for transitions in the band of acetylene located at 1.53 microns at seven temperatures in the range 213–333K to obtain the temperature dependences of broadening and shift coefficients. Several line profile models were used to retrieve the line parameters.

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