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Dielectric parameters relevant to microwave dielectric

Camelia Gabriel, Sami Gabriel, Edward H. Grant, Edward H. Grant, Ben S. J. Halst

Abstract

Microwave dielectric heating is rapidly becoming an established procedure in synth
basic theory underlying microwave dielectric heating and collates the dielectric dat
commmonly used in microwave syntheses. The loss tangents of the solvents, which
absorb energy in a microwave cavity, depend on the relaxation times of the molecul
the nature of the functional groups and the volume of the molecule. Functional grou
particularly strong influence on the relaxation times. The relaxation times of solvent
increased. Loss tangent data at different microwave frequencies are also presented a

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