

1H,3H-Imidazolium (R,S)-camphor-10-sulfonate

ABSTRACT

The title compound, C₃H₅N₂⁽⁺⁾·C₁₀H₁₅O₄S⁽⁻⁾, comprises two crystallographically independent ion pairs (A and B) in the asymmetric unit with slightly different conformations due to the disordered methyl groups in the anion of molecule A. Two intra-molecular C-H···O hydrogen bonds generate S(6) ring motifs. In molecule A, the methyl groups are disordered over two sets of positions with a site-occupancy ratio of 0.547 (9):0.453 (9). Extensive inter-molecular N-H···O and C-H···O hydrogen-bonding interactions occur in the crystal structure which link the molecules into a two-dimensional network parallel to the (100) plane.

Keyword: Single crystal; X-ray study