

## Crystal structure 2-[[2-(3-phenylallylidene)hydrazin-1-yl]thiocarbonylsulfanylmethyl]pyridinium chloride

### ABSTRACT

In the title salt of an S-substituted dithiocarbazate,  $C_{16}H_{16}N_3S_2^+ \cdot Cl^-$ , the dihedral angles between the almost planar (r.m.s deviation = 0.005 Å) central  $CN_2S_2$  residue and the terminal pyridinium and phenyl rings are 80.09 (11) and 3.82 (11)°, respectively, indicating the cation has an L-shape; the amine H and thione S atoms are syn. The conformation about each of the imine [1.376 (3) Å] and ethene [1.333 (4) Å] bonds is E. The shortened C-C bond [1.444 (4) Å] linking the double bonds is consistent with conjugation in this part of the molecule. In the crystal, supramolecular layers with a jagged topology are formed by charged-assisted amine-H...Cl<sup>-</sup> and pyridinium-N<sup>+</sup>-H...Cl<sup>-</sup> hydrogen bonds. The layers stack along the a axis with no specific directional interactions between them.

**Keyword:** Crystal structure; Hydrogen bonding; S-substituted dithiocarbazates; Salt