

(2,2'-Bipyridyl-[kappa]2N,N')bis(N-butyl-N-methyldithiocarbamato-[kappa]2S,S')cadmium(II).

ABSTRACT

The CdII atom in the title compound, [Cd(C₆H₁₂NS₂)₂(C₁₀H₈N₂)], is hexacoordinated by two dithiocarbamate ligands and the N atoms from a bidentate 2,2'-bipyridyl molecule. The coordination geometry is based on a distorted trigonal-prismatic arrangement of the N₂S₄ donor set. Supramolecular chains, aligned along the a-axis direction, are mediated by C-H...S interactions and these are connected into layers that stack along the c axis via [pi]-[pi] interactions [Cg(pyridyl)...Cg(pyridyl) = 3.6587 (13) Å].

Keyword: Crystal; Atom; Binaphthalene; Chloroform.