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Editorial note

We begin in this issue an X-ray bibliography of structures of interest to inorganic chemists. Each issue of Coordination Chemistry Reviews will contain a continuing, up-to-date bibliography as the structures appear in the literature. Each entry contains the name of the compound, the reference and a brief description of the structure, together with pertinent crystallographic details such as the space group and the number of reflections.

It is hoped that this service will alert readers to new structures very soon after they appear in the literature. With the availability of advanced equipment which will complete a structure in a relatively short period, it is very difficult to keep up with the mass of structural information. We hope that this service will enable our readers to keep abreast of the developments in this area. At the end of each volume the bibliography will be indexed according to central element and ligand.

X-RAY BIBLIOGRAPHY

Compiled by M. KEETON

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Au_6Hg_5

Diffractometer data on regular hexagonal prism with pyramids on both ends. 122 independent reflexions. A number of models were tried. The best converged to R = 7.6%. Space group $P6_3/mcm$. Structure is 10- and 12-coordination polyhedron around Hg.

T. Lindahl, *Acta Chem. Scand.*, 24 (1970) 946.

1,4-Diselenocyanotobenzene

$C_6H_4(SeCN)_2$, R = 11.4%, $P2_1/c$. The C–Se–C bond angle is 94.4° and S ··· N contacts are of 3.08 and 3.27 Å making an approximate square plane around each selenium atom.

W.S. McDonald and L.P. Pettit, *J. Chem. Soc., (A)*, (1970) 2044.

Tetraphenylphosphenium π-cyclopentadienylbis-(1,2-dicyanoethylene-1,2-dithiolato)-molybdenum, $[Ph_4P^+]\,[(\pi\text{-}C_5H_5)Mo\{S_2C_2(CN)_2\}_2^-]$

($P\bar{1}$), R = 8.6 for 3657 independent reflexions taken on a Berger diffractometer. The anion has approximate C_s symmetry with the molybdenum atom approximately seven-coordinate to two bidentate dithiolates and a tridentate π cyclopentadienyl ligand; Mo–S distances average 2.407 Å.

M.R. Churchill and J. Cooke, *J. Chem. Soc., (A)*, (1970) 2046.

Potassium pentafluorotellurate, $KTeF_5$

(*Pbcm*) R = 2.18% for 646 observed reflexions. The structure contains isolated TeF_5^- ions arranged in approximate square pyramidal fashion but with strict C_5 symmetry. Te–F distances are apical 1.864, basal 1.953, and 1.952 Å, respectively.

S.H. Martin, R.R. Ryan and L.B. Aspray, *Inorg. Chem.*, 9 (1970) 2100.