

s13.m35.p10 **Dimethyl 2,2'-(4,5-dicyano-o-phenylenedioxy)-dibenzoate.** Nazan Ocak^a, Orhan Büyükgüngör^a, Nesuhi Akdemir^b, Erbil Agar^b, Musa Özil^b and Ahmet Erdönmez^a, ^aDepartment of Physics, Faculty of Arts and Sciences, Ondokuz Mayıs University, TR-55139, Samsun, Turkey, ^bDepartment of Chemistry, Faculty of Arts and Sciences, Ondokuz Mayıs University, TR-55139, Samsun, Turkey. E-mail: erdonmez@omu.edu.tr

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$C_{24}H_{16}N_2O_6$, $M_r=428.39$, MoK α radiation, Orthorhombic, Pbcn, $a=22.1158(16)\text{\AA}$, $b=12.8114(9)\text{\AA}$, $c=21.802(2)\text{\AA}$, $V=6177.2(9)\text{\AA}^3$, $Z=12$, $D_x=1.382\text{Mgm}^{-3}$, $T=293(2)\text{K}$, $0.33\times 0.27\times 0.20\text{mm}$, no absorption correction applied. $R=0.044$, $wR=0.118$.

For many years, phthalocyanines have attracted continued interest in various, research fields, such as chemical sensors, electrochromism, batteries, photodynamic therapy, semiconductive materials, liquid crystals and non-linear optics (Leznoff & Lever, 1989-1996). For these reasons, the structure of phthalonitrile derivatives with different substituents have been of much interest in our laboratory (Ocak et al., 2003).

There are two independent molecules in the structure of the title compound, one in a general position, the other on a twofold axis of space group Pbcn (Fig 1). There are thus one and a half molecules in the asymmetric unit. C-H...O, C-H...N and C-H... π interactions exert some influence on the molecular conformation and packing in the crystal structure.

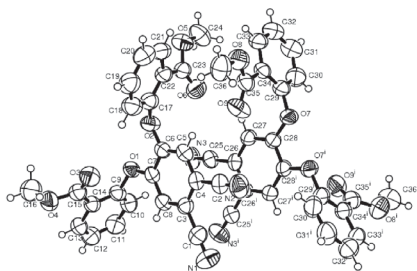


Fig 1. A view of the dimethyl 2,2'-(4,5-dicyano-o-phenylenedioxy)dibenzoate

References

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s13.m35.p11 **A New Germanium Zeotype with 14R Channels.** E. Gutiérrez-Puebla, M. E. Medina, N. Snejko and A. Monge. *Instituto de Ciencia de Materiales de Madrid. CSIC. Cantoblanco s/n. 28049 Madrid. Spain. E-mail: egutierrez@icmm.csic.es*

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Unlike zeolites, germanium zeotypes the structure of the framework can be formed by GeO_4 tetrahedra, GeO_6 octahedra, and sometimes even GeO_5 trigonal bipyramids. In this work we present a new germanate, ICMM7, $\text{Ge}_{13}\text{O}_{26}(\text{OH})_4(\text{C}_6\text{H}_{13}\text{N}_2)_2$, its structure and thermal stability. It is triclinic, P-1, cell dimensions: $a=10.4739(4)$, $b=12.6016(5)$, $c=15.5505(6)$ Å, $\alpha=86.07(1)$, $\beta=79.16(1)$, $\gamma=83.78(1)^\circ$, $Z=2$. The framework is building by associations of octahedra and tetrahedra of GeO_6 and GeO_4 , and presents 14R channels along (1 -1 0) direction (shown in the figure below). Geometrical parameters in relation to other microporous germanates will be discussed.

