

This article was downloaded by:

On: 29 January 2011

Access details: *Access Details: Free Access*

Publisher *Taylor & Francis*

Informa Ltd Registered in England and Wales Registered Number: 1072954 Registered office: Mortimer House, 37-41 Mortimer Street, London W1T 3JH, UK



Phosphorus, Sulfur, and Silicon and the Related Elements

Publication details, including instructions for authors and subscription information:

<http://www.informaworld.com/smpp/title~content=t713618290>

Erratum

To cite this Article (2006) 'Erratum', *Phosphorus, Sulfur, and Silicon and the Related Elements*, 181: 1, 237 — 238

To link to this Article: DOI: 10.1080/10426500500485721

URL: <http://dx.doi.org/10.1080/10426500500485721>

PLEASE SCROLL DOWN FOR ARTICLE

Full terms and conditions of use: <http://www.informaworld.com/terms-and-conditions-of-access.pdf>

This article may be used for research, teaching and private study purposes. Any substantial or systematic reproduction, re-distribution, re-selling, loan or sub-licensing, systematic supply or distribution in any form to anyone is expressly forbidden.

The publisher does not give any warranty express or implied or make any representation that the contents will be complete or accurate or up to date. The accuracy of any instructions, formulae and drug doses should be independently verified with primary sources. The publisher shall not be liable for any loss, actions, claims, proceedings, demand or costs or damages whatsoever or howsoever caused arising directly or indirectly in connection with or arising out of the use of this material.

■ Erratum

In issue 180(11), the article ‘Hydrothermal Synthesis, Crystal Structures and Characterization of Two Hydrogen Phosphates Templated by 4-Amino-2,2,6,6-tetramethylpiperidine’ by A. Dakhlaoui et al., the unit cell parameter $b = 10.466$ was incorrectly printed as $c = 0.466$ in both the abstract and Table V. Following are the corrected abstract and Table V.

*Chemical preparations, crystal structures, thermal analyses, and IR spectroscopic studies are given for two new hydrogen phosphates templated by 4-amino-2,2,6,6-tetramethylpiperidine: $(C_9H_{22}N_2)_2 \cdot (H_2PO_4) \cdot (HPO_4) \cdot (F) \cdot H_2O$ (**I**) and $(C_9H_{22}N_2) \cdot (H_2PO_4)_2$ (**II**). The structures are determined by single crystal X-ray diffraction. Both compounds crystallize in the $P2_1/c$ ($N^\circ 14$) monoclinic space group with the unit cell parameters: $a = 14.856$ (1) Å, $b = 14.092$ (2) Å, $c = 14.7166$ (9) Å, $\beta = 118.434$ (7)°, $V = 2709.2$ (4) Å³, and $Z = 4$ for (**I**) and $a = 9.803$ (2) Å, $b = 10.466$ (2) Å, $c = 15.640$ (8) Å, $\beta = 94.990$ (4), $V = 1598.68$ (7) Å³, and $Z = 4$ for (**II**).*

*The structure of **I**, refined to $R = 0.042$ and $R_w = 0.067$ for 6009 reflections ($I \geq 2\sigma$ (**I**)), exhibits infinite inorganic chains $\infty((H_2PO_4) \cdot (HPO_4) \cdot (F) \cdot H_2O)^{4-}$ linked together through weak hydrogen bonds to form layers onto which the diprotonated $[C_9H_{22}N_2]^{2+}$ amine molecules are anchored.*

*The structure of **II**, refined to $R = 0.060$ and $R_w = 0.086$ for 1435 reflections ($I \geq 2\sigma$ (**I**)), consists of $\infty(H_2PO_4)^- (100)$ layers between which $[C_9H_{22}N_2]^{2+}$ cations are inserted. A network of hydrogen bonds connects the different components. IR spectra of **I** and **II** show the characteristic bands of amine groups and phosphate anions.*

**TABLE V Crystal Data and Intensity Measurement for
(C₉H₂₂N₂)₂·(H₂PO₄)·(HPO₄)·(F)·H₂O (I) and (C₉H₂₂N₂)·(H₂PO₄)₂ (II)**

	I	II
Formula	[C ₉ H ₂₂ N ₂] ₂ ·(H ₂ PO ₄)· (HPO ₄)·(F)·H ₂ O	[C ₉ H ₂₂ N ₂]· (H ₂ PO ₄) ₂
Molecular weight (g mol ⁻¹)	546.56	352.26
Space group	P2 ₁ /c (N° 14)	
Cell parameters		
a (Å)	14.856 (1)	9.803 (2)
b (Å)	14.092 (2)	10.466 (2)
c (Å)	14.7166 (9)	15.640 (8)
β (°)	118.434 (7)	94.990 (4)
Volume (Å ³); Z	2709.2 (4); 4	1598.68 (7); 4
ρ _{calc.} , ρ _{exp.} (g cm ⁻³)	1.34, 1.296 (3)	1.46, not measured
Diffractometer, T(K)	Siemens AED2, 293 (2) MoK _α 0.71073 Å ω-2θ	
Radiation (graphite monochromated)		
Scan mode		
hkl min-max	0 ≤ h ≤ 20, -19 ≤ k ≤ 0, -20 ≤ l ≤ 18	-10 ≤ h ≤ 10, 0 ≤ k ≤ 11, 0 ≤ l ≤ 16
Absorption correction	Empirical	Empirical
2θ limit	60°	45°
Number of independent reflections	6009	1435
Number of refined parameters	325	144
Final R/R _w indices (I > 2σ(I))	0.043/0.149	0.060/0.149
Goodness of fit on F ²	1.129	1.035