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Crystallographic data of hexaiodotellurates(IV) of some amino acids

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An x-ray investigations of crystalline salts containing TeI_6^{2-} anions and cations of protonated amino acids were initiated to elu-

Amino acid, Formula	Cell constants		V	Z	$\frac{V}{Z}$	Space group
	a	α				
	b	β (°)	(Å^3)		(Å^3)	
	c	γ				
Sarcosine	25.00(3)	—	5160	8	645	$P4_2$ or
$(C_3H_8NO_2)_2TeI_6$	—	—				$P4_2/m$
	8.26(1)	—				
DL-Aminobutyric	11.88(2)	—	1250	2	625	$P2_1/c$
acid	8.37(1)	113.0(2)				
$(C_4H_{10}NO_2)_2TeI_6$	13.61(2)	—				
DL-Valine	18.78(2)	—	3570	4	892	$P2_12_12_1$
$(C_5H_{12}NO_2)_2TeI_6$	19.88(2)	—				
	9.57(1)	—				
DL-Norvaline	12.27(2)	—	1330	2	665	$P2_1/c$
$(C_5H_{12}NO_2)_2TeI_6$	8.42(1)	117.0(2)				
	14.41(2)	—				
DL-Leucine	8.31(1)	114.3(2)	700	1	700	$P1$ or
$(C_6H_{14}NO_2)_2TeI_6$	12.47(2)	110.2(2)				$P\bar{1}$
	8.25(1)	113.2(2)				
ε-Aminocapronic	8.39(1)	95.7(2)	660	1	660	$P1$ or
acid	10.03(1)	94.9(2)				$P\bar{1}$
$(C_6H_{14}NO_2)_2TeI_6$	7.93(1)	94.2(2)				
L-Glutamic and	8.43(1)	—	1460	2	730	$P2_12_12$
$(C_5H_{10}NO_4)_2TeI_6$	22.05(3)	—				
	7.87(1)	—				

cidate the geometry of TeI_6^{2-} octahedral anion. These compounds were synthesized analogously as hexabromotellurates(IV) (PASTUSZAK *et al.*, 1974).

Influence of the protonated amino acids on the regularity and stability of the TeI_6^{2-} octahedra in a long run will be studied.

Preliminary crystallographic data obtained on a precession camera with Cu$K\alpha$ radiation are tabulated below.

Reference

R. PASTUSZAK, H. JEDRZEJCZAK, and J. DOBROWOLSKI (1974), Hexabromotellurites of protonated amino acids. Roczniki Chem. **48**, 2267—2274.