

No. M16 PbN₆, Lead azide
 ($M = 291.2$)

1a	Photo- and electric-field-flexural properties of thread crystal of lead azide (β -PbN ₆) were reported by Ivanov et al. in 1990. They supposed that these properties were explained by ferroelectric character.		90Iva
b	phase	II	I
	state		P
	crystal system	monoclinic	83Iva
	Θ [K]	≈ 360	90Iva
	Optically transparent.		83Iva
	Explosive.		83Iva
	Another form is known as α -PbN ₆ , which is orthorhombic.		83Iva
2a	Chemical transport reaction.		83Iva
b	Crystal form: acicular, thread, whisker.		83Iva
4	Lattice deformation: see		90Iva
5d	Pyroelectric current is observed below about 360 K.		90Iva
	Electrocaloric effect: $\Delta T/\Delta E = 3 \cdot 10^{-5} \text{ K m V}^{-1}$.		90Iva
7c	Hysteresis behavior of deformation versus external electric field is found below Θ .		90Iva
15a	Domain structure is revealed on gold-decorated (010) face.		90Iva
16	Photoinduced flexural deformation is observed under illumination of 365...366.5 nm light.		90Iva