Au[CN]	*hP*3	(183) *P*6*mm* – a^3

AuCN [2]
Structural features: Infinite -Au-C-N- linear chains parallel to [001].

Hibble S.J. et al. (2003) [1]
AuCN
a = 0.33915, c = 0.50726 nm, c/a = 1.496, V = 0.0505 nm^3, Z = 1

site	Wyck.	sym.	*x*	*y*	*z*	occ.	atomic environment
C1	1*a*	6*mm*	0	0	0.0		single atom N
N2	1*a*	6*mm*	0	0	0.226		single atom C
Au3	1*a*	6*mm*	0	0	0.608		colinear NC

Transformation from published data: origin shift 0 0 0.392
Experimental: powder, diffractometer, neutrons, time-of-flight, wR_p = 0.076, T = 300 K

Remarks: Structure model rejected in favor of a refinement in space group (191) *P*6/*mmm* with a disordered arrangement of C and N. According to the authors of [1], too large differences between the Au-C and Au-N bond lengths were found in [2].

References: [1] Hibble S.J., Hannon A.C., Cheyne S.M. (2003), Inorg. Chem. 42, 4724-4730. [2] Bowmaker G.A., Kennedy B.J., Reid J.C. (1998), Inorg. Chem. 37, 3968-3974.