$AgCd_3Zr_3F_{20}$	*hP*54	(176) $P6_3/m$ – ih^6cba

$AgCd_3Zr_3F_{20}$ [1]
Structural features: ZrF_7 and CdF_7 pentagonal bipyramids share edges to form infinite slabs, which are interconnected via common vertices to form a 3D-framework; Ag in trigonal bipyramidal voids.

Graudejus O., Müller B.G. (1996) [1]
$AgCd_3F_{20}Zr_3$
a = 1.052, c = 0.8286 nm, c/a = 0.788, V = 0.7942 nm^3, Z = 2

site	Wyck.	sym.	x	y	z	occ.	atomic environment
F1	12*i*	1	0.4252	0.1456	0.0115		non-colinear ZrCd
F2	6*h*	*m*..	0.0355	0.2352	$^1/_4$		single atom Zr
F3	6*h*	*m*..	0.0591	0.4734	$^1/_4$		single atom Zr
Cd4	6*h*	*m*..	0.27257	0.43437	$^1/_4$		pentagonal bipyramid F_7
F5	6*h*	*m*..	0.2797	0.2257	$^1/_4$		non-colinear ZrCd
Zr6	6*h*	*m*..	0.4158	0.13759	$^1/_4$		pentagonal bipyramid F_7
F7	6*h*	*m*..	0.6341	0.1841	$^1/_4$		non-colinear Zr_2
F8	2*c*	-6..	$^1/_3$	$^2/_3$	$^1/_4$		coplanar triangle Cd_3
F9	2*b*	-3..	0	0	0		colinear Ag_2
Ag10	2*a*	-6..	0	0	$^1/_4$		trigonal bipyramid F_5

Transformation from published data: *y*,*x*,-*z*; origin shift 0 0 $^1/_2$
Experimental: single crystal, diffractometer, X-rays, R = 0.054

References: [1] Graudejus O., Müller B.G. (1996), Z. Anorg. Allg. Chem. 622, 1549-1556.