$Zr_6FeAl_2O_{0.14}$	*hP*11	(189) *P*-62*m* – gfdca

$Zr_6FeAl_2O_x$ [1]
Structural features: Filled-up derivative of β_1-K_2UF_6 antitype with O in trigonal bipyramidal (Zr_3Al_2) voids.

Yartys V.A. et al. (1999) [1]
$Al_2FeO_{0.14}Zr_6$
a = 0.7931, c = 0.33526 nm, c/a = 0.423, V = 0.1826 nm^3, Z = 1

site	Wyck.	sym.	x	y	z	occ.	atomic environment
Zr1	3*g*	*m*2*m*	0.2538	0	$^1/_2$		non-colinear Fe_2
Zr2	3*f*	*m*2*m*	0.6049	0	0		non-colinear O_2
Al3	2*d*	-6..	$^1/_3$	$^2/_3$	$^1/_2$		colinear O_2
O4	2*c*	-6..	$^1/_3$	$^2/_3$	0	0.07	colinear Al_2
Fe5	1*a*	-62*m*	0	0	0		trigonal prism Zr_6

Transformation from published data: -*x*,-*y*,-*z*
Experimental: powder, diffractometer, X-rays, R_p = 0.065

Remarks: Sample submitted to deuteration at rt and desorption at 973 K.

References: [1] Yartys V.A., Fjellvag H., Hauback B.C. (1999), J. Alloys Compd. 290, 157-163.