

$\text{Ir}_6\text{Sn}_5\text{B}_2$	$hP13$	(189) $P\text{-}62m$ – ifdba
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$\text{Sn}_5\text{Ir}_6\text{B}_2$ [1]

Structural features: Infinite columns of base-linked BIr_6 trigonal prisms parallel to $[001]$; no B-B contact.

Klünter W., Jung W. (1996) [1]

$\text{B}_2\text{Ir}_6\text{Sn}_5$

$a = 0.65897$, $c = 0.55919$ nm, $c/a = 0.849$, $V = 0.2103$ nm³, $Z = 1$

site	Wyck.	sym.	x	y	z	occ.	atomic environment
Ir1	$6i$	$..m$	0.2551	0	0.2545		non-colinear B_2
Sn2	$3f$	$m2m$	0.5968	0	0		monocapped trigonal prism BIr_6
Sn3	$2d$	$-6..$	$\frac{1}{3}$	$\frac{2}{3}$	$\frac{1}{2}$		trigonal prism Ir_6
B4	$1b$	$-62m$	0	0	$\frac{1}{2}$		trigonal prism Ir_6
B5	$1a$	$-62m$	0	0	0		trigonal prism Ir_6

Experimental: single crystal, diffractometer, X-rays, $R = 0.037$

References: [1] Klünter W., Jung W. (1996), Z. Anorg. Allg. Chem. 622, 670-674.