$ReOs_3H_5[CO]_{12}$	*hP*168	(176) $P6_3/m$ – $i^{11}h^6$

(μ-H)$_5$Os$_3$Re(CO)$_{12}$ [1]
Structural features: $ReH_5Os_3(CO)_{12}$ tetrahedral units (a ($ReOs_3$) tetrahedron with three C=O units bonded to each vertex; probably one H above each Os-Os edge and above two of the Re-Os edges in statistical disorder with respect to a mirror plane).

Churchill M.R. et al. (1988) [1]
$C_{12}O_{12}Os_3Re$
a = 1.9087, c = 1.0963 nm, c/a = 0.574, V = 3.4589 nm^3, Z = 6

site	Wyck.	sym.	*x*	*y*	*z*	occ.	atomic environment
Os1	12*i*	1	0.0493	0.32905	0.1148		non-coplanar triangle C_3
C2	12*i*	1	0.0557	0.2455	0.0344		single atom O
C3	12*i*	1	0.0718	0.5324	0.1293		single atom O
O4	12*i*	1	0.0806	0.5746	0.0482		single atom C
O5	12*i*	1	0.1969	0.1344	0.0156		single atom C
C6	12*i*	1	0.2628	0.5154	0.1263		single atom O
O7	12*i*	1	0.301	0.5604	0.0485		single atom C
C8	12*i*	1	0.3488	0.0637	0.0965		single atom O
O9	12*i*	1	0.3875	0.1347	0.0906		single atom C
C10	12*i*	1	0.3957	0.3213	0.0219		single atom O
O11	12*i*	1	0.4415	0.345	0.1048		single atom C
Os12	6*h*	*m*..	0.05362	0.45785	$^1/_4$		non-coplanar triangle C_3
Re13	6*h*	*m*..	0.20221	0.44303	$^1/_4$		non-coplanar triangle C_3
C14	6*h*	*m*..	0.2698	0.3965	$^1/_4$		single atom O
O15	6*h*	*m*..	0.3066	0.3662	$^1/_4$		single atom C
C16	6*h*	*m*..	0.4705	0.0598	$^1/_4$		single atom O
O17	6*h*	*m*..	0.5177	0.1278	$^1/_4$		single atom C

Transformation from published data: *y*,*x*,-*z*
Experimental: single crystal, diffractometer, X-rays, R = 0.054, T = 297 K

Remarks: H not located. Hydrogen atoms are not taken into consideration for Pearson symbol, Wyckoff sequence and atomic environments.

References: [1] Churchill M.R., Fettinger J.C., Hollander F.J., Lashewycz Rubycz R.A. (1988), J. Organomet. Chem. 340, 367-376.