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COL  ICSD Collection Code 85355
DATE Recorded Jun 2, 1999
NAME Yttrium oxide
FORM Y2 O3
    = O3 Y2
TITL Structure and microstructure of Smx Y2-x O3
REF  Solid State Ionics
    SSIOD 101 (1997) 495-501
AUT  Mitric M, Kremenovic A, Dimitrijevic R, Rodic D
CELL a=10.602(0) b=10.602(0) c=10.602(0) ̑=90.0 ̒=90.0 ̓=90.0
    U=1191.6 Z=16
SGR  I a -3      (206) - cubic
CLAS m-3      (Hermann-Mauguin) - Th (Schoenflies)
PRS  cI80
ANX  A2X3
PARM Atom__No OxStat Wyck -----X----- Y----- Z----- -SOF-
    Y 1 3.000 8b 1/4 1/4 1/4
    Y 2 3.000 24d 0.96767(5) 0. 1/4
    O 1 -2.000 48e 0.3914(3) 0.1521(4) 0.3810(4)
WYCK e d b
TF  Atom ̢(1,1) ̢(2,2) ̢(3,3) ̢(1,2) ̢(1,3) ̢(2,3)
    Y 1 0.0008 0.0008 0.0008 0.0003 0.0003 0.0003
        (0) (0) (0) (1) (1) (1)
    Y 2 0.0006 0.0007 0.0007 0.0000 0.0000 0.0001
        (0) (0) (1) (1) (1)
    O 1 0.0003 0.0019 0.0020 0.0003 0.0003 0.0004
        (2) (2) (2) (4) (4) (4)
REM  XDP (X-ray diffraction from a powder)
REM  RUP
RUAL 0.019

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