

$\text{Sr}(\text{Mn}_{0.5}\text{Te}_{0.5})_2\text{O}_6$	$hP9$	(189) $P\text{-}62m$ – ida
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SrMnTeO₆ [1]

Structural features: Kagomé-mesh O₃ layers alternate with triangle-mesh Sr layers and hexagon-mesh (Mn,Te)₂ layers along [001]. (Mn,Te)O₆ trigonal prisms share edges to form infinite slabs; Sr in trigonal prismatic voids between the slabs.

Wulff L., Müller Buschbaum H. (1998) [1]

MnO₆SrTe

$a = 0.5143$, $c = 0.5384$ nm, $c/a = 1.047$, $V = 0.1233$ nm³, $Z = 1$

site	Wyck.	sym.	x	y	z	occ.	atomic environment
O1	$6i$	$..m$	0.3751	0	0.3009		non-colinear Mn ₂
M2	$2d$	$-6..$	$\frac{1}{3}$	$\frac{2}{3}$	$\frac{1}{2}$		trigonal prism O ₆
Sr3	$1a$	$-62m$	0	0	0		trigonal prism O ₆

M2 = 0.5Mn + 0.5Te

Transformation from published data: $-x, -y, -z$

Experimental: single crystal, diffractometer, X-rays, R = 0.039

References: [1] Wulff L., Müller Buschbaum H. (1998), Z. Naturforsch. B 53, 283-286.