

**substance:** Tb<sub>2</sub>O<sub>3</sub>

**property:** crystal structure, physical properties

Tb<sub>2</sub>O<sub>3</sub> [88L]

**structure:** monoclinic

**activation energy for conductivity**

$E_A$	2.24 eV	$T = 750 \dots 900 \text{ K}$ , 4f <sup>8</sup> -cond. band	energy band diagram: Fig. 1
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**conductivity**

$\sigma$	$3.08 \cdot 10^7 \text{ } \Omega^{-1} \text{ m}^{-1}$	n-type
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**mobility**

$\mu_n$	$2.10 \text{ cm}^2 \text{ V}^{-1} \text{ s}^{-1}$	$T = 900 \text{ K}$
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**References:**

88L Lal, H.B., Kanchan Gaur: J. Mater. Sci. 23 (1988) 919.

**Fig. 1.**

Energy band diagram for rare-earth sesquioxides [88L].

