



>>Entry Name: Zinc telluride (ZnTe)

CAS Registry Number: 1315-11-3

ZnTe

Molecular Formula: TeZn

Molecular Weight: 192.99

Accurate Mass: 193.835374

Percentage Composition: Te 66.12%; Zn 33.88%

Use/Importance: Optical recording material. Semiconductor

Physical Description: Cryst.

Melting Point: Mp 1238.5° (1295°)

Aldrich: 25432-0

Fluka: 96515

References:

- Bridgeman, P.W., *Proc. Am. Acad. Arts Sci.*, 1940, **74**, 21
Gmelin Handbook Inorg. Chem., Syst. No. 32, 1956, 969
Samara, G.A. *et al.*, *Phys. Chem. Solids*, 1962, **23**, 457, (*phase trans*)
Carides, J. *et al.*, *Solid State Commun.*, 1964, **2**, 217, (*Zn/Te phase diagram*)
Cingolani, A. *et al.*, *Phys. Status Solidi A*, 1970, **1**, 115, (*elect props*)
Mitra, S.S., *Indian J. Pure Appl. Phys.*, 1971, **9**, 922, (*Raman*)
Shalimova, K.V. *et al.*, *Kristallografiya*, 1972, **17**, 541, (*cryst struct*)
Cooper, M.J. *et al.*, *Acta Cryst. A*, 1973, **29**, 49, (*nd*)
Brauer, G., *Handbuch Prap. Anorg. Chem.*, 3rd edn., Ferdinand Enke Verlag, 1975, **2**, 1029, (*synth*)
Lukashevich, P.G. *et al.*, *Zh. Prikl. Spektrosk.*, 1978, **29**, 1040, (*luminescence*)
Sobolev, V.V. *et al.*, *Zh. Prikl. Spektrosk.*, 1983, **38**, 288, (*optical props*)
Barr, T.L. *et al.*, *Mater. Res. Soc. Symp. Proc.*, 1985, **47**, 205, (*esca*)
Sharma, R.C. *et al.*, *Bull. Alloy Phase Diagrams*, 1987, **8**, 14, (*struct*)
Miles, R.H. *et al.*, *J. Cryst. Growth*, 1987, **85**, 188, (*struct, optical props*)
Svane, A. *et al.*, *Phys. Scr.*, 1988, **37**, 407, (*Te-125, Zn-67 Mössbauer*)
Bastow, T.J. *et al.*, *Phys. Status Solidi B*, 1988, **145**, 719, (*Zn-67, Te-125 nmr*)
Athwal, I.S. *et al.*, *J. Mater. Sci.*, 1989, **24**, 110, (*ir, struct*)