



>>Entry Name: Manganese telluride (MnTe₂), 11Cl

Synonym(s): Manganese(II) ditelluride

CAS Registry Number: 12032-89-2

MnTe₂

Molecular Formula: MnTe₂

Molecular Weight: 310.138

Accurate Mass: 314.750505

Percentage Composition: Mn 17.71%; Te 82.29%

Source/Synthesis: Synth. by heating stoichiometric quantities of the elements in the absence of air

Physical Description: Dec. to MnTe and Te₂ (gas) just below Mp

Melting Point: Mp 735° (incongr.)

Other Data: $\mu_{\text{eff}} = 6.22 \mu_{\text{B}}$. Antiferromagnetic at low temp. T_{N} 83.8K

References:

Elliot, N., *J.A.C.S.*, 1937, **59**, 1958, (*synth, cryst struct*)

Hastings, J.M. *et al.*, *Phys. Rev.*, 1959, **115**, 13, (*cryst struct, magnetism*)

Johnston, W.D. *et al.*, *J. Less-Common Met.*, 1965, **8**, 272, (*synth, cryst struct*)

Sawaoka, A. *et al.*, *J. Phys. Soc. Jpn.*, 1966, **21**, 1017, (*props*)

Westrum, E.F. *et al.*, *J. Chem. Phys.*, 1970, **52**, 3820, (*synth*)

Hastings, J.M. *et al.*, *Phys. Rev. B*, 1970, **1**, 3209, (*magnetism*)

Goodenough, J.B., *J. Solid State Chem.*, 1972, **5**, 144, (*electronic props*)

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