



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

CAS Registry Number: 12032-88-1  
MnTe

Molecular Formula: MnTe

Molecular Weight: 182.538

Accurate Mass: 184.844276

Percentage Composition: Mn 30.10%; Te 69.90%

Source/Synthesis: Synth. by heating stoichiometric amounts of Mn and Te in evacuated sealed vessels at 700-800°

Physical Description: Dissolves in conc. HNO<sub>3</sub>

Melting Point: Mp 1170°

Other Data: Antiferromagnetic at r.t.;  $T_N$  307K.  $\mu_{\text{eff}} = 4.81\mu_B$ . Magnetic and electrical props. have been studied in detail

>>Variant:  $\alpha$ -form

Molecular Formula: MnTe

Molecular Weight: 182.538

Percentage Composition: Mn 30.10%; Te 69.90%

>>Variant:  $\beta$ -form

Synonym(s): High temp.-form

Molecular Formula: MnTe

Molecular Weight: 182.538

Percentage Composition: Mn 30.10%; Te 69.90%

#### References:

Johnston, W.D. *et al.*, *J. Inorg. Nucl. Chem.*, 1961, **19**, 229, (*synth*)

Komatsubara, T. *et al.*, *J. Phys. Soc. Jpn.*, 1963, **18**, 356, (*magnetism*)

Kunitomi, N. *et al.*, *J. Phys. Soc. Jpn.*, 1963, **18**, 744, (*cryst struct*)

Wiedemeier, H. *et al.*, *High Temp. Sci.*, 1970, **2**, 252, (*mp*)

*Gmelin Handbook Inorg. Chem.*, Syst. No. 56, 1976, **C6**, 311, (*rev, bibl*)

McGregor, K. *et al.*, *Chem. Comm.*, 1990, 1293, (*synth*)

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