**substance: $Fe_3O_4$**
**property: heat capacity, Debye temperature**

**heat capacity:** shows two transitions near $T_V$ [69W, 75E], but this bifurcation appears to be due to unannealed stress [77M].

**Debye temperature**

| | | | | |
|---|---|---|---|---|
| $\Theta_D$ | 548 K | RT | IR absorption | 72G |
| | 550 K | $T$ = 5...100 K | heat capacity, above 100 K, $\Theta_D$ increases slowly to 571 K at 140 K | 69W |

## References:


69W Westrum, E. F., Gronveld, F.: J. Chem. Thermodyn. 1 (1969) 543.
72G Grimes, N. W.: Philos. Mag. 26 (1972) 1217.
75E Evans, B. J.: AIP Conf. Proc. 24 (1975) 73.
77M Matsui, M., Todo, S., Chikazumi, S.: J. Phys. Soc. Jpn. 42 (1977) 1517.