

No. M17 Sb₂S₃, Stibnite*(M* = 339.72)

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|-----|--|-----------|---|--|---------------------|-------|
| 1a | Ferroelectric activity in Sb ₂ S ₃ was reported by Rinkyavichyus and Mikalkevichyus in 1967. | | | | 67Rin | |
| b | phase | III | II | I | 74Orl1 | |
| | state | F | F | P | | |
| | crystal system | | orthorhombic ^{a)} | orthorhombic ^{a)}) | ^{a)} 60Sca | |
| | space group | | Pbn2 ₁ –C _{2v} ⁹ ^{a)}) | Pbnm–D _{2h} ¹⁶ ^{a)}) | | |
| | Θ [K] | 290...310 | | 420...490 | 74Orl2 | |
| | <i>P</i> _s [001]. | | | | | |
| | <i>T</i> _{melt} = 548 °C. | | | | | 55Ibu |
| | <i>ρ</i> = 4.63(2) · 10 ³ kg m ^{–3} . | | | | | 41Dan |
| | Gray with metallic luster. | | | | | |
| | Cleavage plane: (100). | | | | | |
| | *) Estimated by Orlyukas and Grigas [74Orl1] on the basis of the structure determined by Scavnicar [60Sca]. | | | | | |
| 2a | Slow sublimation of Sb ₂ S ₃ at 600 °C: see | | | | 60Sca, 62Kar | |
| 3a | Unit cell parameters: <i>a</i> = 11.2285(5) Å, <i>b</i> = 11.3107(9) Å, <i>c</i> = 3.8363(4) Å. | | | | 72Bay | |
| b | <i>Z</i> = 4. | | | | 72Bay | |
| | Crystal structure: Table M17-001. | | | | | |
| | Powder X-ray data: see | | | | 86Til | |
| 5a | Dielectric constant: Fig. M17-001, Fig. M17-002. | | | | | |
| | Effect of hydrostatic pressure: see | | | | 75Kac | |
| | Dielectric dispersion: see | | | | 80Gri | |
| c | Spontaneous polarization: Fig. M17-003. | | | | | |
| 8a | Absorption of ultrasonic wave: see | | | | 72Gri, 74Sam | |
| 9a | Infrared absorption: see | | | | 73Pet | |
| | Dielectric dispersion in far-infrared region: see | | | | 80Gri | |
| 11 | Electrical conductivity: see | | | | 70Aud, 75Orl | |
| | Photoconductivity: see | | | | 55Ibu | |
| 13a | NQR of ¹²¹ Sb and ¹²³ Sb: see | | | | 77Abd | |
| 14 | Electron microscopy of Sb ₂ S ₃ –PbS system: see | | | | 86Til | |
| 15a | Domain structure is observed by etching technique: see | | | | 76Gri | |