

**Crystal Data:** n.d. *Point Group:* n.d. *Twinning:*

**Physical Properties:** *Cleavage:* *Fracture:* *Tenacity:* Hardness = n.d.  
VHN = D(meas.) = n.d. D(calc.) = n.d.

**Optical Properties:** n.d. *Color:* *Streak:* *Luster:*

*Optical Class:* *Pleochroism:* *Orientation:* *Dispersion:* *Absorption:*

$n = \omega = \epsilon = \alpha = \beta = \gamma = 2V(\text{meas.}) = \text{n.d.}$   $2V(\text{calc.}) =$  *Anisotropism:* *Bireflectance:*

R:

R<sub>1</sub>–R<sub>2</sub>:

**Cell Data:** *Space Group:* n.d.  $a = b = c = \alpha = \beta = \gamma = Z = \text{n.d.}$

**X-ray Powder Pattern:** n.d.

**Chemistry:**

|        | (1) | (2) | (3) |
|--------|-----|-----|-----|
| Na     |     |     |     |
| K      |     |     |     |
| Os     |     |     |     |
| Ir     |     |     |     |
| Ru     |     |     |     |
| Pt     |     |     |     |
| Rh     |     |     |     |
| Pd     |     |     |     |
| Hg     |     |     |     |
| Ag     |     |     |     |
| Au     |     |     |     |
| Pb     |     |     |     |
| Cu     |     |     |     |
| Zn     |     |     |     |
| Fe     |     |     |     |
| Te     |     |     |     |
| Se     |     |     |     |
| As     |     |     |     |
| Sb     |     |     |     |
| Bi     |     |     |     |
| S      |     |     |     |
| F      |     |     |     |
| Cl     |     |     |     |
| Br     |     |     |     |
| I      |     |     |     |
| LOI    |     |     |     |
| rem.   |     |     |     |
| insol. |     |     |     |
| Total  |     |     |     |

(1)

**Polymorphism & Series:**

**Mineral Group:**

**Occurrence:**

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