

**substance: TP<sub>4</sub> compounds**

**property: crystallographic data for the transition-element tetraphosphides**

(RT values).

Com- pound	Space group	<i>Z</i>	<i>a</i> [Å]	<i>b</i> [Å]	<i>c</i> [Å]	<i>α</i> [°]	<i>β</i> [°]	<i>γ</i> [°]	<i>d<sub>x</sub></i> [g cm <sup>-3</sup> ]	Ref.
MnP <sub>4</sub>	C <sub>2h</sub> <sup>6</sup> -C2/c	16	10.513	5.0944	21.804		94.71		4.082	75J
	C <sub>i</sub> <sup>1</sup> -P $\bar{1}$	6	16.347	5.847	5.108	115.66	95.15	89.21	4.07	81R
	C <sub>i</sub> <sup>1</sup> -P $\bar{1}$	2	5.861	5.104	5.836	93.82	107.31	115.81	4.065	80J
			5.8622	5.1059	5.8360	93.803	107.338	115.830		80N
TcP <sub>4</sub> (r)	D <sub>2h</sub> <sup>15</sup> -Pbca	8	6.238	9.215	10.837				4.75	82R
ReP <sub>4</sub>	D <sub>2h</sub> <sup>15</sup> -Pbca	8	6.227	9.231	10.854				6.60	79J
FeP <sub>4</sub>	C <sub>2h</sub> <sup>5</sup> -P2 <sub>1</sub> /c	6	4.619	13.670	7.002		101.48		4.13	78J
FeP <sub>4</sub> (p)	D <sub>2</sub> <sup>5</sup> -C222 <sub>1</sub>	4	5.005	10.212	5.530				4.22	78S
RuP <sub>4</sub> (r)	C <sub>2h</sub> <sup>5</sup> -P2 <sub>1</sub> /c	2	4.686	4.678	7.102		80.53		4.86	82F
RuP <sub>4</sub> (h)	C <sub>i</sub> <sup>1</sup> -P $\bar{1}$	3	7.519	7.145	4.713	100.48	90.35	111.08	4.84	78B
OsP <sub>4</sub> (r)	C <sub>2h</sub> <sup>5</sup> -P2 <sub>1</sub> /c	2	4.694	4.683	7.096		80.43		6.78	82F
OsP <sub>4</sub> (h)	C <sub>i</sub> <sup>1</sup> -P $\bar{1}$	3	7.540	7.153	4.718	100.38	90.34	111.20	6.73	78B

## References:

- 75J     Jeitschko, W., Donohue, P. C.: Acta Crystallogr. B31 (1975) 574.
- 78B     Braun, D. J., Jeitschko, W.: Z. Anorg. Allg. Chem. 445 (1978) 157.
- 78J     Jeitschko, W., Braun, D. J.: Acta Crystallogr. B34 (1978) 3196.
- 78S     Sugitani, M., Kimomura, N., Koizumi, M., Kume, S.: J. Solid State Chem. 26 (1978) 195.
- 79J     Jeitschko, W., Rühl, R.: Acta Crystallogr. B35 (1979) 1953.
- 80J     Jeitschko, W., Rühl, R., Krieger, U., Heiden, C.: Mat. Res. Bull. 15 (1980) 1755.
- 80N     Nolang, B. I., Tergenius, L. E.: Acta Chem. Scand. A34 (1980) 311.
- 81R     Rühl, R., Jeitschko, W.: Acta Crystallogr. 837 (1981) 39.
- 82F     Flörke, U., Jeitschko, W.: J. Less-Common Met. 86 (1982) 247.
- 82R     Rühl, R., Jeitschko, W., Schwochau, K.: J. Solid State Chem. 44 (1982) 134.