substance: FeO ($Fe_{1-x}O$)
property: lattice parameters, density

lattice parameters in the cubic phase

a	4.3390 Å	*T* = 300 K	extrapolated to *x* = 0 from the	33J
	4.3370 Å		d*a*/d*x* data below	66L
	4.3297 Å			68F
	4.3453 Å			60R
	4.3202 Å			65V
	4.323 Å		measured on stoichiometric FeO	67K
	4.332 Å			70H
d*a*/d*x*	0.5643 Å	*T* = 300 K	*x*-dependence of *a*: Figs. 1, 2	33J
	0.5286 Å		*T*-dependence of *a*: Fig. 3	66L
	0.4256 Å			68F
	0.625 Å			60R
	0.3025 Å			65V

density

d	5.87 g cm^{-3}	X-ray density	70H

References:

33J Jette, E. R., Foote, F.: J. Chem. Phys. 1 (1933) 33.
60R Roth, W. L.: Acta Crystallogr. 13 (1960) 140.
65V Vallet, P., Raccah, P.: Compt. Rend. 260 (1965) 4325.
66L Levin, R. L., Wagner, J. B.: Trans. AIME 236 (1966) 516.
67K Katsura, T., Iwasaki, B., Kimura, S., Akimoto, S.: J. Chem. Phys. 47 (1967) 4559.
68F Fujii, C. T., Meussner, R. A.: Trans. AIME 242 (1968) 1259.
70H Hentschel, B.: Z. Naturforsch. A25 (1970) 1997.
72H Hayakawa, M., Cohen, J. B., Reed, T. B.: J. Am. Ceram. Soc. 55 (1972) 160.
80B Bauer, E., Pianem, A.: Mater. Res. Bull. 15 (1980) 177.

Fig. 1.

$Fe_{1-x}O$. Lattice parameter vs. composition for two temperatures. Arrows show the phase boundaries at each temperature [72H].

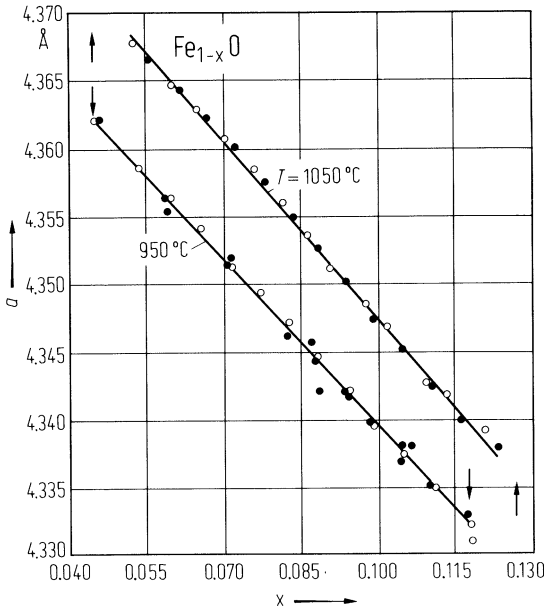

Fig. 2.

$Fe_{1-x}O$. Lattice parameter vs. composition for quenched samples at 298 K. Results of different authors [80B].

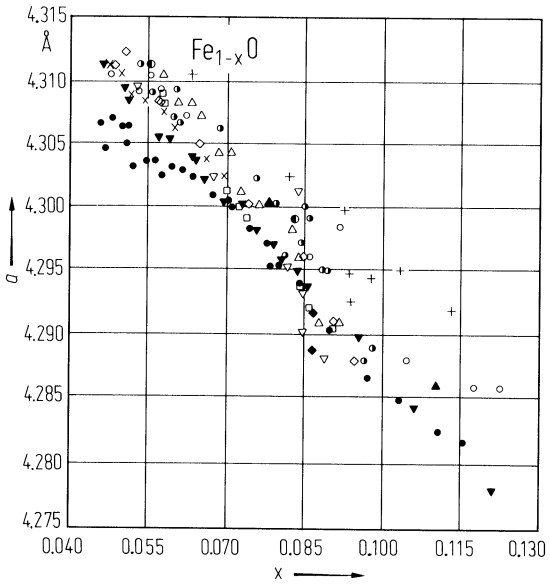

Fig. 3.

$Fe_{1-x}O$. Lattice constant vs. temperature for $Fe_{1-x}O$ in 34% CO [72H]. 1–x = 0.905...0.908.