

substance: $\text{Cr}_{1-x}\text{Fe}_x\text{Sb}_2$, $\text{Fe}_{1-x}\text{Cr}_x\text{As}_2$

property: physical properties

$\text{Cr}_{1-x}\text{Fe}_x\text{Sb}_2$:

$x = 0 \dots 1$, linear variation of the lattice constants b and c ($= T - T$) with x [70B, 79K].

Néel temperatures

T_N	246 K	$x = 0.07$	the Fe atoms carry no magnetic moment	79K
	210 K	$x = 0.12$		
	127 K	$x = 0.28$		
	60 K	$x = 0.40$		
	0 K	$x \approx 0.50$ (extrapolated)		

$\text{Fe}_{1-x}\text{Cr}_x\text{As}_2$:

loellingite-type solid solutions up to $x = 0.83$ for samples quenched from 873 K, $x = 0.81$ for samples quenched from 1123 K [79K].

decomposition temperature decreases to 1138 K at $x = 0.8$ [79K].

References:

- 70B Bjerkelund, F., Kjekshus, A.: Acta Chem. Scand. 24 (1970) 3317.
79K Kjekshus, A., Peterzens, P. O., Rakke, T., Andresen, A. F.: Acta Chem. Scand. A33 (1979) 469.