

substance: V₂O₃

property: properties of Cr and Al doped material: extended Cr- and Al-data

Cr-data (first column: mean transition temperature (in K); second column: actual span of transition (in K); third column: transformation heat ΔH_{tr} (in J mol⁻¹), precision ± 80 J mol⁻¹; fourth column: mol % Cr₂O₃)

173	18	1995...2025	0	hysteresis of ca. 3...15 K is observed when measurements are performed while cooling	77K
181	25	2115...2160	1		
186	30	2355	2		
187	30	2355	3.3	only the 1% Cr-sample showed an additional anomaly at 325...360 K	
183	20	1730	4		
176	20	1630	6		
164	22	1470	9		
151	25	1130	12		

Al-data (first column: mean transition temperature (in K); second column: ΔH_{tr} (in J mol⁻¹), precision ± 105 J mol⁻¹; third column: mol % Al₂O₃)

171	2386	0.33	only the 1% Al-sample showed a clear high temperature anomaly	76K
182	2721	1		
187	2345	3.3		
179	1863	5		
166	1172	8		
148	1047	10		

References:

- 76K Kuwamoto, H., Dickerson, D. L., Keer, H. V., Honig, J. M.: Mater. Res. Bull. 11 (1976) 1301.
- 77K Keer, H. V., Barros, H. L. C., Dickerson, D. L., Barfknecht, A. T., Honig, J. M.: Mater. Res. Bull. 12 (1977) 137.