Crepuscular crust values of Thanatia. Xc represents the crepuscular concentration of the given mineral in Thanatia. (Valero et al. 2011)

Mineral	**Formula**	**x_c**
Quarz	SiO_2	2.29E-01
Albite	$NaAlSi_3O_8$	1.35E-01
Oligoclase	$Na_{0.8}Ca_{0.2}Al_{1.2}Si_{2.8}O_8$	1.19E-01
Orthoclase	$KAlSi_3O_8$	1.18E-01
Andesine	$Na_{0.6}Ca_{0.4}Al_{1.4}Si_{2.6}O_8$	5.46E-02
Paragonite	$NaAl_3Si_3O_{10}(OH)_2$	3.96E-02
Biotite	$KMg_{2.5}Fe^{2+,0.5}AlSi_3O_{10}(OH)_{1.75}F_{0.25}$	3.82E-02
Hydromuscovite/ Illite	$K_{0.6}(H_3O)_{0.4}Al_2Mg_{0.4}Fe^{2+,0.1}Si_{3.5}O_{10}(OH)_2$	3.03E-02
Augite	$Ca_{0.9}Na_{0.1}Mg_{0.9}Fe^{2+,0.2}Al_{0.4}Ti_{0.1}Si_{1.9}O_6$	3.00E-02
Hornblende	$Ca_2Fe^{2+,4}Al_{0.75}Fe^{3+,0.25}(Si_7AlO_{22})(OH)_2$	2.63E-02
Labradorite	$Na_{0.5}Ca_{0.5}Al_{1.5}Si_{2.5}O_8$	2.50E-02
Nontronite	$Na_{0.3}Fe^{3+,2}Si_{3.7}Al_{0.3}O_{10}(OH)_2 \cdot 4(H_2O)$	1.93E-02
Opal	$SiO_2 \cdot 1.5(H_2O)$	1.24E-02
Ripidolite	$Mg_{3.75}Fe^{2+,1.25}Si_3Al_2O_{10}(OH)_8$	1.20E-02
Almandine	$Fe^{2+,3}Al_2(SiO_4)_3$	1.04E-02
Muscovite	$KAl_3Si_3O_{10}(OH)_{1.8}F_{0.2}$	1.01E-02
Sillimanite	Al_2SiO_5	9.97E-03
Epidote	$Ca_2Fe^{3+}Al_2(SiO_4)_3(OH)$	9.06E-03
Kaolinite	$Al_2Si_2O_5(OH)_4$	8.36E-03
Calcite	$CaCO_3$	8.06E-03
Magnetite	$Fe^{3+,2}Fe^{2+}O_4$	7.97E-03
Riebeckite	$Na_2Fe^{2+,3}Fe^{3+,2}(Si_8O_{22})(OH)_2$	5.74E-03
Beidellite	$Na_{0.33}Al_{2.33}Si_{3.67}O_{10}(OH)_2$	5.10E-03
Ilmenite	$Fe^{2+}TiO_3$	4.71E-03
Titanite	$CaTiSiO_5$	4.46E-03
Clinochlore	$Mg_{3.75}Fe^{2+,1.25}Si_3Al_2O_{10}(OH)_8$	4.37E-03
Sepiolite	$Mg_4Si_6O_{15}(OH)_2 \cdot 6(H_2O)$	3.48E-03
Aegirine	$NaFe^{3+}Si_2O_6$	3.04E-03

Mineral	Formula	x_c
Diopside	$CaMgSi_2O_6$	3.04E-03
Natrolite	$Na_2Al_2Si_3O_{10}\cdot 2(H_2O)$	2.97E-03
Cummingtonite	$Mg_7(Si_8O_{22})(OH)_2$	2.91E-03
Phosphate rock	$Ca_3(PO_4)_2$	2.79E-03
Hypersthene	$MgFe^{2+}Si_2O_6$	2.72E-03
Ankerite	$CaFe^{2+,0.6}Mg_{0.3}Mn^{2+,0.1}(CO_3)_2$	2.71E-03
Hastingsite	$NaCa_2Fe^{2+,4}Fe^{3+}(Si_6Al_2O_{22})(OH)_2$	2.58E-03
Bytownite	$Na_{0.2}Ca_{0.8}Al_{1.8}Si_{2.2}O_8$	2.50E-03
Actinolite	$Ca_2Mg_3Si_8O_{22}(OH)_2Fe^{2+,2}$	2.47E-03
Hydrobiotite	$Mg_{2.3}Fe^{3+,0.6}K_{0.3}Ca_{0.1}Si_{2.8}Al_{1.3}O_{10}\,(OH)_{1.8}F_{0.2}\cdot 3(H_2O)$	2.44E-03
Montmorillonite	$Na_{0.165}Ca_{0.0835}Al_{2.33}Si_{3.67}O_{10}(OH)_2$	2.39E-03
Andalusite	Al_2SiO_5	2.03E-03
Lawsenite	$CaAl_2Si_2O_7$	2.00E-03
Diaspore	$AlO(OH)$	1.77E-03
Pennine	$Mg_{3.75}Fe^{2+,1.25}Si_3Al_2O_{10}(OH)_8$	1.71E-03
Glauconite	$K_{0.6}Na_{0.05}Fe^{3+,1.3}Mg_{0.4}Fe^{2+,0.2}Al_{0.3}\,Si_{3.8}O_{10}(OH)_2$	1.56E-03
Dolomite	$CaMg(CO_3)_2$	1.42E-03
Prehnite	$Ca_2Al_2Si_3O_{10}(OH)_2$	1.41E-03
Hydragillite/ Gibbsite	$Al(OH)_3$	1.38E-03
Ulvöspinel	$TiFe^{2+,2}O_4$	1.16E-03
Goethite	$Fe^{3+}O(OH)$	1.04E-03
Neptunite	$KNa_2LiFe^{2+,1.5}Mn^{2+,0.5}Ti_2Si_8O_{24}$	9.97E-04
Hematite	Fe_2O_3	9.68E-04
Lepidomelane/ Annite	$KFe^{2+,2.5}Mg_{0.5}Fe^{3+,0.75}Al_{0.25}Si_3O_{10}(OH)_2$	9.11E-04
Barite	$BaSO_4$	8.03E-04
Sanidine	$K_{0.75}Na_{0.25}AlSi_3O_8$	7.31E-04
Distene/ Kyanite	Al_2SiO_5	7.08E-04
Celestine	$SrSO_4$	6.70E-04
Staurolite	$Fe^{2+}Al_9Si_4O_{23}(OH)$	6.56E-04
Thuringite/ Chamosite	$Fe^{2+,3}Mg_2Al^{3+,0.5}Fe^{3+,0.5}Si_3AlO_{10}(OH)_2$	6.44E-04

Mineral	Formula	x_c
Ferrosilite	$Fe^{2+}MgSi_2O_6$	6.13E-04
Halite	$NaCl$	5.89E-04
Boehmite	$AlO(OH)$	5.79E-04
Thomsonite	$NaCa_2Al_5Si_5O_{20}\cdot 6(H_2O)$	4.99E-04
Serpentine/ Clinochrysotile	$Mg_3Si_2O_5(OH)_4$	4.56E-04
Pigeonite	$Mg_{1.35}Fe^{2+,0.55}Ca_{0.1}Si_2O_6$	4.37E-04
Bronzite	$MgFe^{2+}Si_2O_6$	4.11E-04
Apatite	$Ca_5(PO_4)_3(OH)_{0.33}F_{0.33}Cl_{0.33}$	4.03E-04
Zircon	$ZrSiO_4$	3.88E-04
Stilpnomelane	$K_{0.8}Fe^{2+,8}Al_{0.8}Si_{11.1}O_{21}(OH)_{8.6}\cdot 6(H_2O)$	3.85E-04
Spodumente	$LiAlSi_2O_6$	3.83E-04
Leucoxene	$CaTiSiO_5$	3.72E-04
Tremolite	$Ca_2Mg_5Si_8O_{22}(OH)_2$	3.48E-04
Clinozoisite	$Ca_2Al_3(SiO_4)_3(OH)$	3.41E-04
Psilomelane	$Ba\cdot(H_2O)Mn^{3+,5}O_{10}$	3.41E-04
Crossite	$Na_2Mg_2Fe^{2+}Al_2(Si_8O_{22})(OH)_2$	3.31E-04
Pyrite	FeS?2	3.17E-04
Niter	KNO_3	3.00E-04
Talc	$Mg_3Si_4O_{10}(OH)_2$	2.91E-04
Vermiculite	$Mg_3Si_4O_{10}(OH)_2\cdot 2(H_2O)$	2.82E-04
Enstatite	$Mg_2Si_2O_6$	2.79E-04
Anorthite	$CaAl_2Si_2O_8$	2.75E-04
Rutile	TiO_2	2.73E-04
Zoisite	$Ca_2Al_3Si_3O_{12}(OH)$	2.58E-04
Nitratine	$NaNO_3$	2.52E-04
Graphite	C	2.43E-04
Siderite	$Fe^{2+}CO_3$	2.43E-04
Braunite	$Mn^{2+}Mn^{3+,6}SiO_{12}$	2.36E-04
Olivine	$Mg_{1.6}Fe^{2+,0.4}(SiO_4)$	2.34E-04
Spessartine	$Mn2+3Al2(SiO4)3$	2.28E-04

Mineral	Formula	x_c
Anhydrite	$CaSO_4$	2.26E-04
Hollandite	$Ba_{0.8}Pb_{0.2}Na_{0.125}Mn^{4+,6}Fe^{3+,1.3}Mn^{2+,0.5}Al_{0.2}Si_{0.1}O_{16}$	2.23E-04
Analcime	$NaAlSi2O_6$Â·(H_2O)	2.23E-04
C org	C	2.23E-04
Chromite	$Fe^{2+}Cr_2O_4$	1.98E-04
Vesuvianite/ Idocrase	$Ca_{10}Mg_2Al_4(SiO_4)_5(Si_2O_7)_2(OH)_4$	1.71E-04
Pyrrhotite	$Fe^{2+}S$	1.51E-04
Tephroite	$Mn^{2+,2}(SiO_4)$	1.23E-04
Corundum	Al_2O_3	1.22E-04
Gypsum	$CaSO_4 \cdot 2H_2O$	1.21E-04
Rhodochrosite	$MnCO_3$	1.05E-04
Arfvedsonite	$Na_3Fe^{2+,4}Fe^{3+}(Si_8O_{22})(OH)_2$	1.05E-04
Monazite (Ce)	$Ce_{0.5}La_{0.25}Nd_{0.2}Th_{0.05}(PO_4)$	1.03E-04
Sphalerite	ZnS	9.96E-05
Jadeite	$NaAl_{0.9}Fe^{3+,0.1}(Si_2O_6)$	9.80E-05
Dispersed V	V	9.71E-05
Pumpellyite	$Ca_2MgAl_2(SiO_4)(Si_2O_7)(OH)_2 \cdot (H_2O)$	9.49E-05
Diodochic Rb	Rb	8.30E-05
Aragonite	$CaCO_3$	7.70E-05
Nepheline	$Na_{0.75}K_{0.25}Al(SiO_4)$	7.43E-05
Forsterite	Mg_2SiO_4	6.96E-05
Hedenbergite	$CaFe^{2+}Si_2O_6$	6.82E-05
Witherite	$BaCO_3$	6.79E-05
Chalcopyrite	$CuFeS_2$	6.64E-05
Phlogopite	$KMg_3AlSi_3O_{10}F(OH)$	6.62E-05
Pentlandite	$Fe^{2+,4.5}Ni_{4.5}S_8$	5.75E-05
Cordierite	$Mg_2Al_4Si_5O_{18}$	5.57E-05
Fayalite	$Fe^{2+,2}SiO_4$	4.78E-05
Pyrolusite	MnO_2	4.73E-05
Anatase	TiO_2	4.46E-05

Mineral	Formula	x_c
Francolite	$Ca_5(PO_4)_{2.63}(CO_3)_{0.5}F_{1.11}$	4.35E-05
Tourmaline	$NaFe^{2+,3}Al_6(BO_3)_3Si_6O_{18}(OH)_4$	4.30E-05
Orthite-Ce/ Allanite	$Ca_{1.2}Ce_{0.4}Y_{0.133}Al_2Fe^{3+}(Si_3O_{12})(OH)$	4.05E-05
Lepidolite	$KLi_2AlSi_4O_{10}F(OH)$	3.99E-05
Gedrite	$Mg_5Al_2(Si_6Al_2O_{22})(OH)_2$	3.23E-05
Beryl	$Be_3Al_2Si_6O_{18}$	3.22E-05
Pyrophyllite	$Al_2Si_4O_{10}(OH)_2$	3.22E-05
Magnesite	$MgCO_3$	3.04E-05
Ilmenorutile	$Ti_{0.7}Nb_{0.15}Fe^{2+,0.225}O_2$	2.96E-05
Rhodonite	$Mn^{2+}SiO_3$	2.93E-05
Ulexite	$NaCaB_5O_9{\cdot}8H_2O$	2.92E-05
Chloritoid	$Fe^{2+,1.2}Mg_{0.6}Mn^{2+,0.2}Al_4Si_2O_{10}(OH)_4$	2.89E-05
Diadochic Ce	Ce	2.83E-05
Clementite	$Fe^{2+,3}Mg_{1.5}AlFe^{3+}Si_3AlO_{12}(OH)_6$	2.64E-05
Jacobsite	$Mn^{2+,0.6}Fe^{2+,0.3}Mg_{0.1}Fe^{3+,1.5}Mn^{3+,0.5}O_4$	2.63E-05
Kernite	$Na_2B_4O_7{\cdot}4H_2O$	2.61E-05
Bastnaesite	$La(CO_3)F$	2.54E-05
Colemanite	$Ca_2B_6O_{11}{\cdot}5H_2O$	2.46E-05
Sassolite (natural boric acid)	H_3BO_3	2.22E-05
Murmanite	$Na_4Ti_{3.6}Nb_{0.4}(Si_2O_7)_2O_4{\cdot}4(H_2O)$	2.15E-05
Cryptomelane	$KMn^{4+,7.5}Mn^{2+,0.5}O_{16}$	2.11E-05
Anthophyllite	$Mg_7Si_8O_{22}(OH)_2$	2.09E-05
Grossular	$Ca_3Al_2(SiO_4)_3$	2.08E-05
Diadochic Ni	Ni	1.98E-05
Amblygonite	$Li_{0.75}Na_{0.25}Al(PO_4)F_{0.75}(OH)_{0.25}$	1.95E-05
Diadochic Y	Y	1.86E-05
Scapolite	$Na_2Ca_2Al_3Si_9O_{24}Cl$	1.83E-05
Pollucite	$Cs_{0.6}Na_{0.2}Rb_{0.1}Al_{0.9}Si_{2.1}O_6{\cdot}(H_2O)$	1.78E-05
Dispersed Ga	Ga	1.76E-05
Dispersed Co	Co	1.73E-05
Spinel	$MgAl_2O_4$	1.52E-05

Mineral	Formula	x_c
Diadochic Nd	Nd	1.46E-05
Sapphirine	$Mg_4Al_{6.5}Si_{1.5}O_{20}$	1.40E-05
Dispersed Sc	Sc	1.40E-05
Manganite	$MnO(OH)$	1.31E-05
Cristobalite	SiO_2	1.24E-05
Fluorite	CaF_2	1.12E-05
Andradite	$Ca_3Fe^{2+,2}(SiO_4)_3$	9.98E-06
Glaucophane	$Na_2(Mg_3Al_2)Si_8O_{22}(OH)_2$	9.49E-06
Ferrocolumbite	$Fe^{2+}Nb_2O_6$	8.10E-06
Todorokite	$Na_2Mn^{4+,4}Mn^{3+,2}O_{12}\cdot 3(H_2O)$	8.03E-06
Clinohumite	$Mg_{6.75}Fe^{2+,2.25}(SiO_4)_4F_{1.5}(OH)_{0.5}$	7.64E-06
Pr in Monazite. Fergusonite and Bastnasite	Pr	7.10E-06
Thorite	$ThSiO_4$	6.91E-06
Galena	PbS	6.67E-06
Marcasite	$FeS2$	6.04E-06
Kornerupine	$Mg_{3.5}Fe^{2+,0.2}Al_{5.7}(SiO_4)_{3.7}(BO_4)_{0.3}O_{1.2}(OH)$	6.00E-06
Hf in Zr ores	Hf	5.29E-06
Vaesite	NiS_2	5.20E-06
Violarite	$Fe^{2+}Ni_2S_4$	5.20E-06
Humite	$Mg_{5.25}Fe^{2+,1.75}(SiO_4)_3F_{1.5}(OH)_{0.5}$	5.09E-06
Jarosite	$KFe^{3+,3}(SO_4)_2(OH)_6$	4.79E-06
Wollastonite	$CaSiO_3$	4.74E-06
Arsenopyrite	$FeAsS$	4.71E-06
Sm in Monazite and Bastnasite	Sm	4.69E-06
Kieserite	$MgSO_4\cdot(H_2O)$	4.24E-06
Garnierite	$Ni_2MgSi_2O_5(OH)_4$	4.10E-06
Euxenite	$Y_{0.7}Ca_{0.2}Ce_{0.1}(Ta_{0.2})_2(Nb_{0.7})_2(Ti_{0.025})O_6$	3.93E-06
Dispersed Dy	Dy	3.91E-06
Cubanite	$CuFe_2S_3$	3.62E-06
Dispersed Gd	Gd	3.19E-06
Nickeline	$NiAs$	2.73E-06

Mineral	Formula	x_c
Aenigmatite	$Na_2Fe^{2+,5}TiSi_6O_{20}$	2.73E-06
Scheelite	$CaWO_4$	2.67E-06
Cassiterite	SnO_2	2.61E-06
Carnotite	$K_2(UO_2)_2(VO_4)_2 \cdot 3H_2O$	2.52E-06
Vernadite	$Mn^{4+,0.6}Fe^{3+,0.2}Ca_{0.2}Na_{0.1}O_{1.5}(OH)_{0.5} \cdot 1.4(H_2O)$	2.36E-06
Topaz	$Al_2(SiO_4)F_{1.1}(OH)_{0.9}$	2.34E-06
Dispersed Er	Er	2.30E-06
Chrysoberyl	$BeAl_2O_4$	2.28E-06
Hisingerite	$Fe^{3+,2}Si_2O_5(OH)_4 \cdot 2(H_2O)$	2.21E-06
Covellite	CuS	2.17E-06
Sylvite	KCl	2.05E-06
Yttrialite	$Y_{1.5}Th_{0.5}Si_2O_7$	1.94E-06
Molybdenite	MoS_2	1.83E-06
Yb in monazite	Yb	1.72E-06
Gersdorffite	$NiAsS$	1.61E-06
Dispersed Br	Br	1.60E-06
Omphacite	$Ca_{0.6}Na_{0.4}Mg_{0.6}Al_{0.3}Fe^{2+,0.1}Si_2O_6$	1.60E-06
Brucite	$Mg(OH)_2$	1.58E-06
Uraninite	UO_2	1.51E-06
Azurite	$Cu_3(CO_3)_2(OH)_2$	1.51E-06
Dietzeite	$Ca_2(IO_3)_2(CrO_4)$	1.51E-06
Sb in galena	Sb	1.42E-06
Dispersed Ge	Ge	1.41E-06
Bornite	Cu_5FeS_4	1.33E-06
Nosean	$Na_8Al_6Si_6O_{24}(SO_4)$	1.26E-06
Pyrochlore	$NaCaNb_2O_6(OH)_{0.75}F_{0.25}$	1.26E-06
Malachite	$Cu_2(CO_3)(OH)_2$	1.21E-06
Palygorskite	$MgAlSi_4O_{10}(OH) \cdot 4(H_2O)$	1.14E-06
Lautarite	$Ca(IO_3)_2$	1.08E-06
Dispersed Eu	Eu	1.00E-06
Dispersed Tl	Tl	8.98E-07
Hydrosodalite	$Na_8(AlSiO_4)_6(OH)_2$	8.44E-07

Mineral	Formula	x_c
Dispersed Ho	Ho	8.30E-07
Gadolinite	$Y_2Fe^{2+}Be_2(Si_2O_{10})$	8.05E-07
Phenakite	Be_2SiO_4	8.05E-07
Bertrandite	$Be_4Si_2O_7(OH)_2$	8.05E-07
Helvine/ Helvite	$Mn_4Be_3(SiO_4)_3S$	8.05E-07
Strontianite	$SrCO_3$	7.88E-07
Dispersed Tb	Tb	7.00E-07
Perovskite	$CaTiO_3$	6.94E-07
Tridymite	SiO_2	6.30E-07
Cryolite	Na_3AlF_6	4.95E-07
Orpiment	As_2S_3	4.55E-07
Sulphur	S_8	4.53E-07
Brookite	TiO_2	4.21E-07
Eudialyte	$Na_4Ca_2Ce_{0.5}Fe^{2+,0.7}Mn^{2+,0.3}Y_{0.1}ZrSi_8O_{22}(OH)_{1.5}Cl_{0.5}$	4.04E-07
Carnallite	$KMgCl_3{\cdot}6(H_2O)$	4.03E-07
Xenotime	$YbPO_4$	3.70E-07
Dawsonite	$NaAl(CO_3)(OH)_2$	3.65E-07
Wolframite	$Fe^{2+,0.5}Mn^{2+,0.5}(WO_4)$	3.21E-07
Dispersed Lu	Lu	3.10E-07
Dispersed Tm	Tm	3.00E-07
Stibnite	Sb_2S_3	2.75E-07
Copper	Cu	2.48E-07
Cerussite	$PbCO_3$	2.21E-07
Blomstrandite/ Betafite	$U_{0.3}Ca_{0.2}Nb_{0.9}Ti_{0.8}Al_{0.1}Fe^{3+,0.1}Ta_{0.5}O_6(OH)$	2.05E-07
Sodalite	$Na_8Al_6Si_6O_{24}Cl_2$	1.98E-07
Britholite	$Ca_{2.9}Ce_{0.9}Th_{0.6}La_{0.4}Nd_{0.2}Si_{2.7}P_{0.5}O_{12}(OH)_{0.8}F_{0.2}$	1.67E-07
Ferrotantalite	$Fe^{2+}Ta_2O_6$	1.58E-07
Ramsayite/ Lorenzenite	$Na_2Ti_2Si_2O_9$	1.24E-07
Anglesite	$PbSO_4$	1.16E-07
Greenockite	CdS	1.16E-07
Chondrodite	$Mg_{3.75}Fe^{2+,1.25}(SiO_4)_2F_{1.5}(OH)_{0.5}$	1.12E-07

Mineral	Formula	x_c
Axinite -Fe	$Ca_2Fe^{2+}Al_2BO_3Si_4O_{12}(OH)$	1.10E-07
Chalcocite	Cu_2S	1.09E-07
Zinc	Zn	1.01E-07
Se in copper ores	Se	9.00E-08
Loparite - Ce	$Na_{0.6}Ce_{0.22}La_{0.11}Ca_{0.1}Ti_{0.8}Nb_{0.2}O_3$	8.13E-08
Bischofite	$MgCl_2 \cdot 6(H_2O)$	8.06E-08
Smithsonite	$ZnCO_3$	7.98E-08
Sirtolite	$ZrSiO_4$	7.37E-08
Pleonaste/ Magnesioferrite	$MgFe^{3+,2}O_4$	6.96E-08
Lead	Pb	6.32E-08
Bismutite	$Bi_2(CO_3)O_2$	6.09E-08
Cinnabar	HgS	5.73E-08
In in ZnS	In	5.61E-08
Arsenolite	As_2O_3	5.55E-08
Bismuthinite	Bi_2S_3	5.10E-08
Bismite	Bi_2O_3	4.62E-08
Tin	Sn	4.59E-08
Cancrinite	$Na_6Ca_2Al_6Si_6O_{24}(CO_3)_2$	4.46E-08
Chevkinite	$Ce_{1.7}La_{1.4}Ca_{0.8}Th_{0.1}Fe^{2+,1.8}Mg_{0.5}Ti_{2.5}\ Fe^{3+,0.5}Si_4O_{22}$	3.35E-08
Bismuth	Bi	2.71E-08
Rhabdophane-Ce	$Ce_{0.75}La_{0.25}(PO_4)\cdot(H_2O)$	2.62E-08
Fergusonite	$Nd_{0.4}Ce_{0.4}Sm_{0.1}Y_{0.1}NbO_4$	2.38E-08
Native silver	Ag	2.09E-08
Iotisite	FeO	1.72E-08
Realgar	As_4S_4	1.50E-08
Pyrargirite	Ag_3SbS_3	1.29E-08
Argentite	Ag_2S	1.24E-08
Baddeleyite	ZrO_2	1.20E-08
Uranium- Thorite	$ThSiO_4$	1.04E-08
Lavenite	$Na_{0.5}Ca_{0.5}Mn^{2+,0.5}Fe^{2+,0.5}\ Zr_{0.8}Ti_{0.1}Nb_{0.1}(Si_2O_7)O_{0.6}(OH)_{0.3}F_{0.1}$	9.10E-09
Cobaltite	$CoAsS$	8.40E-09
Acanthite	Ag_2S	6.79E-09

Mineral	Formula	x_c
Freibergite	$Ag_{7.2}Cu_{3.6}Fe^{2+,1.2}Sb_3AsS_{13}$	6.79E-09
Smaltite	$CoAs_2$	6.35E-09
Powellite	$CaMoO_4$	6.10E-09
Stephanite	Ag_5SbS_4	6.09E-09
Linnaeite	Co_3S_4	5.15E-09
Microlite	$Na_{0.4}Ca_{1.6}Ta_2O_{6.6}(OH)_{0.3}F_{0.1}$	4.77E-09
Lamprophyllite	$Na_2SrBaTi_3Si_4O_{16}(OH)F$	4.59E-09
Te in Cu ores	Te	4.47E-09
Thorianite	ThO_2	4.12E-09
Delorenzite/ Tanteuxenite	$Y_{0.7}Ca_{0.2}Ce_{0.12}(Ta_{0.7})_2(Nb_{0.2})_2(Ti_{0.1})O_{5.5}(OH)_{0.5}$	4.00E-09
Miserite	$KCa_2Ce_3Si_8O_{22}(OH)_{1.5}F_{0.5}$	2.30E-09
Fahlerz Group: Tennantite	$Cu_{11}Fe^{2+}As_4S_{13}$	1.82E-09
Metatorbenite	$Cu(UO_2)2(PO_4)2{\cdot}8(H_2O)$	1.69E-09
Moissanite	SiC	1.42E-09
Vivianite	$Fe^{3+,3}(PO_4)_2{\cdot}8(H_2O)$	1.30E-09
Naegite	$ZrSiO_4$	1.28E-09
Gold	Au	1.28E-09
Chrysocolla	$Cu_2Si_2O_6{\cdot}(H_2O)_4$	1.25E-09
Troilite	FeS	1.01E-09
Chlorargirite	$AgCl$	7.83E-10
Metacinnabar	HgS	7.38E-10
Wulfenite	$PbMoO_4$	6.10E-10
Tetrahedrite	$Cu_9Fe_3Sb_4S_{13}$	5.70E-10
Nordite	$Na_{2.8}Mn^{2+,0.2}Sr_{0.5}Ca_{0.5}La_{0.33}Ce_{0.6}Zn_{0.6}Mg_{0.4}Si_6O_{17}$	5.46E-10
Samsonite	$Ag_4MnSb_2S_6$	4.87E-10
Pd in Ni-Cu ores	Pd	4.51E-10
Cooperite	$Pt_{0.6}Pd_{0.3}Ni_{0.1}S$	3.95E-10
Weinschenkite	$YPO_4{\cdot}2(H_2O)$	3.70E-10
Ru in Ni-Cu ores	Ru	3.37E-10
Sylvanite	$Au_{0.75}Ag_{0.25}Te_2$	3.27E-10
Loellingite	$FeAs_2$	2.68E-10
Calaverite	$AuTe_2$	2.58E-10

Mineral	Formula	x_c
Pt in Ni-Cu ores	Pt	2.47E-10
Rinkolite/ Mosandrite	$Na_2Ca_3Ce_{1.5}Y_{0.5}Ti_{0.4}Nb_{0.5}Zr_{0.1}(Si_2O_7)_2O_{1.5}F_{3.5}$	2.07E-10
Dispersed Re	Re	1.98E-10
Tellurite	TeO_2	1.82E-10
Tetradymite	Bi_2Te_2S	1.60E-10
Periclase	MgO	1.52E-10
Alunite	$KAl_3(SO_4)2(OH)_6$	9.11E-11
Thortveitite	$Sc_{1.5}Y_{0.5}Si_2O_7$	7.60E-11
Dumortierite	$Al_{6.9}(BO_3)(SiO_4)_3O_{2.5}(OH)_{0.5}$	7.60E-11
Rh in Ni-Cu ores	Rh	6.01E-11
Osmium	$Os_{0.75}Ir_{0.25}$	3.00E-11
Iridium	$Ir_{0.5}Os_{0.3}Ru_{0.2}$	2.61E-11
Polycrase (Y)	$Y_{0.5}Ca_{0.1}Ce_{0.1}U_{0.1}Th_{0.1}Ti_{1.2}Nb_{0.6}Ta_{0.2}O_6$	8.71E-12
Boulangerite	$Pb_5Sb_4S_{11}$	4.00E-12
I-Platinum	Pt	3.00E-12
Polixene/ Tetraferroplatinum	$PtFe$	2.00E-12
Wohlerite	$NaCa_2Zr_{0.6}Nb_{0.4}Si_2O_{8.4}(OH)_{0.3}F_{0.3}$	5.05E-13