The equation for the Debye length,  $\kappa,$  is given in the limit of low concentration as:

$$\kappa = \sqrt{\frac{2c_0e^2}{\epsilon\epsilon_0k_{\rm B}T}}$$

```
c0 = 0.134
e = 1.602e-19
eps = 24.5
eps0 = 8.854e-12
kb = 1.3806e-23
Temp=298.15
Na = 6.022e23
#kappa = sqrt((2*c0*e^2)/(eps*eps0*kb*Temp))
kappa = sqrt((1000*e^2*Na*2*c0)/(eps*eps0*kb*Temp))
```

The Debye length is:

$$\kappa = 2.1537542 \times 10^9~\text{m}^{-1}$$
 
$$\lambda_{\text{\tiny D}} = 4.6430553 \times 10^{-10}~\text{m} = 4.6430553~\text{Å}$$