This represents the Arden Buck equation, relating the relative humidity to the dew point at a certain ambient temperature T [http://en.wikipedia.org/wiki/Dew_point].

```
b = 18.678
c = 257.14
d = 234.5
18.678
257.14
```

The units of parameters b and c are degrees Celcius. Hence, we can obtain the relationship between relative humidity and dew point at an ambient temperature as

```
Tdp20[RH_] := Tdp[20, RH]

Tdp20[RH]

257.14 Log[0.0382576 RH]

18.678 - Log[0.0382576 RH]

RH[Tdp_] := InverseFunction[Tdp20][Tdp]

RH[Tdp]

1.56811x10<sup>19</sup>+4.10013x10<sup>17</sup> Tdp

e 4.80511x10<sup>18</sup>+1.86867x10<sup>16</sup> Tdp
```