

CIE DE94

Coded using VBA code

Function DENineFour(L1, A1, B1, L2, A2, B2)

Application.ScreenUpdating = False

**Dim C1 As Variant, C2 As Variant, Da As Variant, Db As Variant,
DL As Variant, DC As Variant, DH As Variant**

**Dim k1 As Variant, k2 As Variant, SL As Variant, Sc As Variant,
Sh As Variant**

**Dim kL As Variant, kC As Variant, kH As Variant, check As
Variant**

'set sl,k1,k2,kL, kC and kH

kL = 1#: kC = 1#: kH = 1#: k1 = 0.045: k2 = 0.015: SL = 1

'Compute color differences

C1 = Sqr(A1 ^ 2 + B1 ^ 2)

C2 = Sqr(A2 ^ 2 + B2 ^ 2)

DL = L1 - L2

DC = C1 - C2

Da = A1 - A2

Db = B1 - B2

check = Da ^ 2 + Db ^ 2 - DC ^ 2

If check < 0 Then

check = 0

End If

DH = Sqr(check)

Sc = 1 + k1 * C1

Sh = 1 + k2 * C1

**DENineFour = Sqr((DL / (kL * SL)) ^ 2 + (DC / (kC * Sc)) ^ 2 + (DH /
(kH * Sh)) ^ 2)**

End Function