Código R para gerar o gráfico

```r
library(ggplot2)
wine <- read.csv("c:/Users/maria/Documents/Tecnico/PE/winequality-white-q5
   .csv", sep = ",")
wine$sqrt_citric_acid <- sqrt(wine$citric.acid)
wine$quality <- as.factor(wine$quality)
p <- ggplot(wine, aes(x = quality, y = sqrt_citric_acid)) +
  geom_boxplot(fill = "#bfb5e4",
               outlier.colour = "#9e182b",
               outlier.size = 1.5,
               outlier.alpha = 0.6) +
  geom_jitter ( width = 0.2,
                alpha = 0.3,
                size = 0.4) +
  labs(
    title = "Relationship between wine quality and sqrt(citric.acid)",
    x = "Wine Quality",
    y = "Square Root of Citric Acid"
  ) +
  theme_minimal()
# Exportar para PDF
pdf("wine_quality_citric_acid.pdf", width = 8, height = 6)
print(p)
dev.off()
```

Gráfico gerado