free sulfur dioxide total sulfur dioxide 0.3 0.23 0.056 -0.19 0.4 -0.19 -0.28 0.26 0.19 -0.003 sulphates **-** −0.75 alcohol -0.095 -0.038 -0.01 -0.36 -0.26 -0.18 -0.27 -0.69 0.12 -0.003 1 -1.00volatile acidity alcohol PH