

	fixed acidity	volatile acidity	citric acid	residual sugar	chlorides	free sulfur dioxide	total sulfur dioxide	density	pH	sulphates	alcohol	quality
fixed acidity	1.0	-0.26	0.67	0.11	0.09	-0.15	-0.11	0.67	-0.68	0.18	-0.06	0.12
volatile acidity	-0.26	1.0	-0.55	0.0	0.06	-0.01	0.08	0.02	0.23	-0.26	-0.2	-0.39
citric acid	0.67	-0.55	1.0	0.14	0.2	-0.06	0.04	0.36	-0.54	0.31	0.11	0.23
residual sugar	0.11	0.0	0.14	1.0	0.06	0.19	0.2	0.36	-0.09	0.01	0.04	0.01
chlorides	0.09	0.06	0.2	0.06	1.0	0.01	0.05	0.2	-0.27	0.37	-0.22	-0.13
free sulfur dioxide	-0.15	-0.01	-0.06	0.19	0.01	1.0	0.67	-0.02	0.07	0.05	-0.07	-0.05
total sulfur dioxide	-0.11	0.08	0.04	0.2	0.05	0.67	1.0	0.07	-0.07	0.04	-0.21	-0.19
density	0.67	0.02	0.36	0.36	0.2	-0.02	0.07	1.0	-0.34	0.15	-0.5	-0.17
pH	-0.68	0.23	-0.54	-0.09	-0.27	0.07	-0.07	-0.34	1.0	-0.2	0.21	-0.06
sulphates	0.18	-0.26	0.31	0.01	0.37	0.05	0.04	0.15	-0.2	1.0	0.09	0.25
alcohol	-0.06	-0.2	0.11	0.04	-0.22	-0.07	-0.21	-0.5	0.21	0.09	1.0	0.48
quality	0.12	-0.39	0.23	0.01	-0.13	-0.05	-0.19	-0.17	-0.06	0.25	0.48	1.0