fixed acidity -	1	-0.26	0.67	0.11	0.086	-0.14	-0.1	0.67	-0.69	0.19	-0.062	0.12
volatile acidity -	-0.26	1	-0.55	-0.0024	0.055	-0.021	0.072	0.024	0.25	-0.26	-0.2	-0.4
citric acid -	0.67	-0.55	1	0.14	0.21	-0.048	0.047	0.36	-0.55	0.33	0.11	0.23
residual sugar -	0.11	-0.0024	0.14	1	0.027	0.16	0.2	0.32	-0.083	-0.012	0.063	0.014
chlorides -	0.086	0.055	0.21	0.027	1	0.00075	0.046	0.19	-0.27	0.39	-0.22	-0.13
free sulfur dioxide -	-0.14	-0.021	-0.048	0.16	0.00075	1	0.67	-0.018	0.057	0.054	-0.08	-0.05
total sulfur dioxide -	-0.1	0.072	0.047	0.2	0.046	0.67	1	0.078	-0.079	0.035	-0.22	-0.18
density -	0.67	0.024	0.36	0.32	0.19	-0.018	0.078	1	-0.36	0.15	-0.5	-0.18
pH -	-0.69	0.25	-0.55	-0.083	-0.27	0.057	-0.079	-0.36	1	-0.21	0.21	-0.055
sulphates -	0.19	-0.26	0.33	-0.012	0.39	0.054	0.035	0.15	-0.21	1	0.092	0.25
alcohol –	-0.062	-0.2	0.11	0.063	-0.22	-0.08	-0.22	-0.5	0.21	0.092	1	0.48
quality -	0.12	-0.4	0.23	0.014	-0.13	-0.05	-0.18	-0.18	-0.055	0.25	0.48	1
	fixed acidity -	volatile acidity -	citric acid -	residual sugar -	chlorides -	sulfur dioxide -	sulfur dioxide -	density -	- Hd	sulphates -	alcohol -	quality -

- 0.6 - 0.4 - 0.2 - 0.0 - -0.2