	fixed.acidity	volatile.acidity	citric.acid	residual.sugar	chlorides	free.sulfur.dioxide	total.sulfur.dioxide	density	된	sulphates	alcohol	quality	white	4
fixed.acidity	1	0.22	0.32		0.3	-0.28	-0.33	0.46	-0.25	0.3	-0.1	-0.08	-0.49	- 1
volatile.acidity	0.22	1	-0.38	-0.2	0.38	-0.35	-0.41	0.27	0.26	0.23	-0.04	-0.27	-0.65	- 0.8
citric.acid	0.32	-0.38	1	0.14	0.04	0.13	0.2	0.1	-0.33	0.06	-0.01	0.09	0.19	- 0.6
residual.sugar	-0.11	-0.2	0.14	1	-0.13	0.4	0.5	0.55	-0.27	-0.19	-0.36	-0.04	0.35	- 0.4
chlorides	0.3	0.38	0.04	-0.13	1	-0.2	-0.28	0.36	0.04	0.4	-0.26	-0.2	-0.51	- 0.4
free.sulfur.dioxide	-0.28	-0.35	0.13	0.4	-0.2	1	0.72	0.03	-0.15	-0.19	-0.18	0.06	0.47	- 0.2
total.sulfur.dioxide	-0.33	-0.41	0.2	0.5	-0.28	0.72	1	0.03	-0.24	-0.28	-0.27	-0.04	0.7	- 0
density	0.46	0.27	0.1	0.55	0.36	0.03	0.03	1	0.01	0.26	-0.69	-0.31	-0.39	0.2
рН	-0.25	0.26	-0.33	-0.27	0.04	-0.15	-0.24	0.01	1	0.19	0.12	0.02	-0.33	V
sulphates	0.3	0.23	0.06	-0.19	0.4	-0.19	-0.28	0.26	0.19	1	0	0.04	-0.49	0.4
alcohol	-0.1	-0.04	-0.01	-0.36	-0.26	-0.18	-0.27	-0.69	0.12	0	1	0.44	0.03	0.6
quality	-0.08	-0.27	0.09	-0.04	-0.2	0.06	-0.04	-0.31	0.02	0.04	0.44	1	0.12	0.8
white	-0.49	-0.65	0.19	0.35	-0.51	0.47	0.7	-0.39	-0.33	-0.49	0.03	0.12	1	1