

CARBON DIOXIDE TEST UNIT

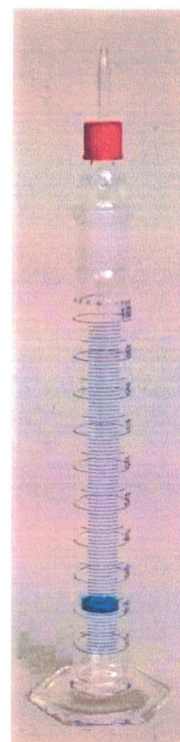
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1. CARBON DIOXIDE UNIT

INTRODUCTION

This apparatus measures the CO₂ content in wine.

The wine sample should be between 5° to 10°C for accurate results.



PROCEDURE

1. Rinse the 100ml Measuring Cylinder with the chilled wine.
2. Tilt the measuring cylinder to an angle of 45° degrees
3. And fill to the 100ml mark with wine poured down the side of the cylinder.
4. Place the central glass tube in the cylinder and tighten the nylon nut by hand until firm.
5. Do not over tighten, otherwise the glass thread may break.
6. Grip the cylinder firmly so that the quick fit cone is held firmly in the socket. Place thumb over the end of the tube.
7. Shake Briskly
8. Rest the cylinder on a table in a vertical position and remove thumb, in order to allow the wine (not gas) to escape up through the top of the glass tube.
9. Place thumb over tubing as before and shake the cylinder again. This Procedure is repeated several times until the wine stops flowing.
10. Remove the quick fit cone containing the glass tubing.
11. Allow the foaming wine to settle and read the volume of the wine in the cylinder

Use the table provided to calculate the CO₂ corresponding to the volume of temperature of the wine.

For example:	Volume of Wine	=	70ml
	Temp of Wine	=	8°C
	CO ₂ content	=	2150mg/l
		=	2150ppm

CO₂ TABLE mg/L

t °C	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
99	0150	0145	0140	0135	0130	0125	0120	0115	0110	0105	0100	0095	0090	0085	0080	0075	0070	0065	0060	0055	0050
98	0275	0265	0260	0255	0250	0245	0235	0225	0220	0215	0210	0200	0195	0190	0185	0180	0175	0165	0160	0155	0150
97	0400	0395	0390	0380	0370	0360	0350	0340	0330	0325	0315	0310	0305	0300	0295	0290	0280	0270	0260	0255	0245
96	0600	0590	0575	0565	0550	0540	0525	0510	0500	0485	0470	0465	0455	0450	0445	0435	0420	0410	0395	0380	0365
95	0800	0780	0770	0750	0735	0720	0700	0680	0665	0645	0625	0620	0610	0600	0590	0580	0560	0545	0525	0505	0485
94	1000	0980	0960	0940	0920	0895	0875	0850	0830	0805	0785	0770	0760	0750	0740	0725	0700	0680	0655	0635	0610
93	1090	1070	1045	1020	1000	0975	0950	0925	0905	0880	0850	0840	0830	0815	0805	0790	0765	0740	0715	0690	0665
92	1175	1150	1130	1105	1080	1055	1030	1005	0975	0950	0925	0910	0900	0885	0870	0860	0830	0805	0775	0750	0720
91	1265	1235	1210	1185	1160	1135	1105	1080	1050	1020	0995	0980	0965	0950	0935	0925	0895	0865	0835	0805	0775
90	1350	1320	1295	1270	1240	1215	1185	1155	1125	1095	1060	1050	1030	1020	1005	0990	0955	0925	0895	0865	0830
89	1435	1410	1380	1350	1320	1295	1260	1230	1200	1165	1130	1120	1100	1085	1070	1055	1020	0985	0955	0920	0890
88	1510	1475	1445	1420	1390	1360	1325	1290	1260	1225	1190	1175	1160	1140	1125	1110	1075	1040	1005	0970	0935
87	1580	1545	1515	1485	1455	1420	1385	1350	1320	1285	1250	1230	1215	1195	1180	1165	1125	1090	1055	1015	0980
86	1650	1615	1585	1550	1520	1485	1450	1415	1380	1345	1300	1290	1270	1255	1235	1215	1180	1140	1105	1065	1030
85	1720	1685	1650	1620	1585	1550	1515	1475	1440	1400	1360	1345	1330	1310	1290	1270	1235	1195	1155	1115	1075
84	1790	1755	1720	1685	1650	1615	1575	1540	1500	1460	1420	1400	1385	1365	1345	1325	1285	1245	1205	1165	1125
83	1850	1815	1780	1745	1710	1670	1630	1590	1550	1510	1470	1450	1430	1410	1390	1375	1330	1290	1245	1205	1165
82	1910	1875	1835	1800	1765	1725	1685	1645	1605	1560	1520	1500	1480	1460	1440	1420	1375	1335	1290	1250	1205
81	1970	1930	1895	1855	1820	1780	1740	1695	1655	1615	1570	1550	1530	1510	1485	1465	1420	1380	1335	1295	1245
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78	2140	2100	2060	2020	1980	1940	1895	1850	1805	1760	1710	1690	1670	1645	1625	1600	1555	1510	1460	1415	1365
77	2195	2150	2110	2070	2030	1985	1940	1598	1850	1805	1760	1735	1710	1690	1665	1645	1595	1545	1500	1450	1405
76	2245	2205	2160	2120	2075	2035	1990	1940	1895	1850	1800	1780	1755	1730	1710	1685	1635	1585	1540	1490	1440
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