

Xenon and Carbon Dioxide Mixture

	Xenon						Carbon Dioxide					
Date & time	Pressure (psia)	Temperature (°C)	Density (mol/liter)	Mole	Shots	Transfer amount	Pressure (psia)	Temperature (°C)	Density (mol/liter)	Mole	Shots	Transfer amount (mole)
7/2 14:56	1370	27.5	12.85	3.94	4	0.5 mol	1036	27.562	NA	NA	2	NA
7/2 15:34	1182	28.562	11.22	3.44		125.5 psi	1052	28.625	NA	NA	NA	32.8 psi
Result	My measurement 79.28% of Xenon						Spirometer: 81.21%–80.03% of Xenon					
7/2 16:05	1197	29.188	11.19	3.44	4	0.49 mol	1080	29.188	NA	NA	2	NA
7/2 16:34	1109	29.312	9.61	2.95		117.2 psi	1079	29.438	NA	NA	NA	31.1 psi
Result	79.03%						80.73%–79.63% of Xenon					
7/4 13:15	997	23.250	10.20	3.13	4	0.31 mol	924	23.188	NA	NA	2	NA
7/4 14:31	1026	25.875	9.18	2.82		102.5 psi	973	25.938	NA	NA	NA	21.7 psi
	82.5%						80.4%–80.05%					
7/4 14:31	1026	25.875	9.18	2.82	5	0.46 mol	973	25.938	NA	NA	2	NA
7/4 15:17	1012	27	7.69	2.36		115 psi	1011	27.062	NA	NA	NA	27.1 psi
	80.92%						81.2%					
7/4 15:32	1021	27.312	7.86	2.41	5	0.53 mol	1021	27.375	NA	NA	2	NA
7/4 15:58	976	27.688	6.12	1.88		108.5 psi	1003	27.812	NA	NA	NA	27 psi
	80.07%						80.4%–79.71%					
7/5 12:15	952	24.625	6.60	2.03	5	0.46 mol	935	24.5	NA	NA	2	NA
7/5 12:36	895	24.188	5.12	1.57		98.7 psi	922	24.125	NA	NA	NA	25.9 psi
	79.21%						80.1%–79.03%					

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7/5 14:46	903	23.938	5.35	1.64	6	0.38	929	24.062	NA	NA	2	NA
7/5 15:12	835	25	4.11	1.26		100.1 psi	920	25.188	5.12	0.77	NA	23.6 psi
	80.92%						80.4–80.09%					
7/5 16:47	835	24.375	4.16	1.28	7	0.31 mol	908	24.250	5.10	0.77	2	0.06 mole
7/5 18:08	738	25.812	3.15	0.97		93.6 psi	906	26.062	4.70	0.71		22.4 psi
Result	80.69%						80.74%–80.54%					
7/6 15:15	742	26.125	3.17	0.97	9	0.29 mol	883	26.125	4.37	0.66	2	0.04 mol
7/6 16:30	595	26.812	2.21	0.68		89.4 psi	872	26.875	4.16	0.62		22.4 psi
Result	79.96%						81.19%–79.51%					
7/6 16:30	595	26.812	2.21	0.68	9	0.28 mol	872	26.875	4.16	0.62	3	0.07 mol
7/6 18:21	394	26.875	1.29	0.40		86.1 psi	820	26.875	3.64	0.55		23.6
result	78.48%						78.24%–77.76%					

PS: Volume of Xenon bottle is 307 ml and volume of CO2 bottle is 150.5 ml.