

**CANNON**
INSTRUMENT COMPANY®PO Box 16 • 2139 High Tech Road • State College • PA • 16804-0016 • USA
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SHEAR RATE DATA

Cannon-Fenske Routine ♦ Cannon- Ubbelohde ♦ Cannon- Ubbelohde Dilution Viscometers

Equation:
$$\text{ShearRate} = \frac{4V}{\pi r^3 t}$$

Tube Size	Efflux Volume (ml)	Capillary Radius (cm)	Viscosity (cSt)	Efflux Time (sec)	Shear Rate (Sec ⁻¹)
25	1.5	0.015	0.4	200	2830
			1.6	800	708
50	3.0	0.022	0.8	200	1790
			3.2	800	450
75	3.0	0.0265	1.6	200	1025
			6.4	800	256
100	3.0	0.0315	3.0	200	612
			12.0	800	153
150	3.0	0.039	7.0	200	321
			28.0	800	80.3
200	3.0	0.0505	20	200	148
			80	800	37
300	3.0	0.0625	50	200	78
			200	800	19.5
350	3.0	0.075	100	200	45.1
			400	800	11.3
400	3.0	0.094	240	200	23.3
			960	800	5.84
450	3.0	0.115	500	200	12.6
			2000	800	3.15
500	3.0	0.155	1600	200	5.15
			6400	800	1.29
600	3.0	0.200	4,000	200	2.29
			16,000	800	0.597
650	3.0	0.228	9,000	200	1.67
			36,000	800	0.46
700	3.0	0.278	20,000	200	0.89
			80,000	800	0.22

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SHEAR RATE DATA

Cannon-Manning Semi-Micro ♦ Cannon-Ubbelohde Semi-Micro
 Cannon-Ubbelohde Semi-Micro Dilution Viscometers

$$\text{Equation: ShearRate} = \frac{4V}{\pi r^3 t}$$

Tube Size	Efflux Volume (ml)	Capillary Radius (cm)	Viscosity (cSt)	Efflux Time (sec)	Shear Rate (Sec ⁻¹)
25	0.3	0.0113	0.4	200	1320
			1.6	800	330
50	0.3	0.013	0.8	200	870
			3.2	800	217
75	0.3	0.0155	1.6	200	514
			6.4	800	127
100	0.3	0.018	3.0	200	326
			12.0	800	82
150	0.3	0.0235	7	200	147
			28	800	37
200	0.3	0.0305	20	200	67
			80	800	16.7
300	0.3	0.038	50	200	34.8
			200	800	8.7
350	0.3	0.045	100	200	20.8
			400	800	5.2
400	0.3	0.0565	240	200	10.6
			960	800	2.65
450	0.3	0.070	500	200	5.57
			2000	800	1.39
500	0.3	0.0925	1600	200	2.39
			6400	800	0.60
600	0.3	0.118	4000	200	1.16
			16000	800	0.29