



















Results and Discussions						
Verification of slip-flow theory						
• Now measured slip flow rates are consistent with the prediction of the 1st order slip flow theory • Klinkenberg coefficient <b>b</b> can be calculated with <b>h</b> $\frac{\dot{Q}_{slip}}{\dot{Q}_{no-slip}} = 1 + \frac{b}{\bar{p}} \Rightarrow b = \frac{6(2-\sigma)}{\sigma h} \frac{16}{5\sqrt{2\pi}} \mu_r z_r \sqrt{\frac{RT}{MW}}$						
		TMAC	AVG H, nm	b, psi	k, mD	
	New calculation	1	431.38±2.55	25.95	15.7	
	Previous calculation	0.95	284nm	22.7	3.47	
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