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### Viscosity Tables

Viscosity is the measurement of a fluid's internal resistance to flow. This is typically designated in units of centipoise or poise but can be expressed in other acceptable measurements as well. Some conversion factors are as follows:

- 100 Centipoise = 1 Poise
- 1 Centipoise = 1 mPa s (Millipascal Second)
- 1 Poise = 0.1 Pa s (Pascal Second)
- Centipoise = Centistoke x Specific Gravity

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| Approximate Viscosities of Common Materials<br>(At Room Temperature-70°F) * |                         |
|---|-------------------------|
| Material  | Viscosity in Centipoise |
| Water   | 1 cps                   |
| Milk  | 3 cps                   |
| SAE 10 Motor Oil  | 85-140 cps              |
| SAE 20 Motor Oil  | 140-420 cps             |
| SAE 30 Motor Oil  | 420-650 cps             |
| SAE 40 Motor Oil  | 650-900 cps             |
| Castrol Oil   | 1,000 cps               |
| Karo Syrup  | 5,000 cps               |
| Honey   | 10,000 cps              |
| Chocolate   | 25,000 cps              |
| Ketchup   | 50,000 cps              |
| Mustard   | 70,000 cps              |
| Sour Cream  | 100,000 cps             |
| Peanut Butter   | 250,000 cps             |

### Viscosity Conversion Chart

The following viscosities are based on materials with a specific gravity of one.

| Centipoise (CPS) or Millipascal (mPas) | Poise (P) | Centistokes (CKS) | Stokes (S) | Saybolt Universal (SSU) |
|--|-----------|-------------------|------------|-------------------------|
| 1                                      | 0.01      | 1                 | 0.01       | 31                      |
| 2                                      | 0.02      | 2                 | 0.02       | 34                      |
| 4                                      | 0.04      | 4                 | 0.04       | 38                      |
| 7                                      | 0.07      | 7                 | 0.07       | 47                      |
| 10                                     | 0.1       | 10                | 0.1        | 60                      |
| 15                                     | 0.15      | 15                | 0.15       | 80                      |
| 20                                     | 0.2       | 20                | 0.2        | 100                     |
| 25                                     | 0.24      | 25                | 0.24       | 130                     |
| 30                                     | 0.3       | 30                | 0.3        | 160                     |

|        |      |        |      |        |
|--------|------|--------|------|--------|
| 40     | 0.4  | 40     | 0.4  | 210    |
| 50     | 0.5  | 50     | 0.5  | 260    |
| 60     | 0.6  | 60     | 0.6  | 320    |
| 70     | 0.7  | 70     | 0.7  | 370    |
| 80     | 0.8  | 80     | 0.8  | 430    |
| 90     | 0.9  | 90     | 0.9  | 480    |
| 100    | 1    | 100    | 1    | 530    |
| 120    | 1.2  | 120    | 1.2  | 580    |
| 140    | 1.4  | 140    | 1.4  | 690    |
| 160    | 1.6  | 160    | 1.6  | 790    |
| 180    | 1.8  | 180    | 1.8  | 900    |
| 200    | 2    | 200    | 2    | 1000   |
| 220    | 2.2  | 220    | 2.2  | 1100   |
| 240    | 2.4  | 240    | 2.4  | 1200   |
| 260    | 2.6  | 260    | 2.6  | 1280   |
| 280    | 2.8  | 280    | 2.8  | 1380   |
| 300    | 3    | 300    | 3    | 1475   |
| 320    | 3.2  | 320    | 3.2  | 1530   |
| 340    | 3.4  | 340    | 3.4  | 1630   |
| 360    | 3.6  | 360    | 3.6  | 1730   |
| 380    | 3.8  | 380    | 3.8  | 1850   |
| 400    | 4    | 400    | 4    | 1950   |
| 420    | 4.2  | 420    | 4.2  | 2050   |
| 440    | 4.4  | 440    | 4.4  | 2160   |
| 460    | 4.6  | 460    | 4.6  | 2270   |
| 480    | 4.8  | 480    | 4.8  | 2380   |
| 500    | 5    | 500    | 5    | 2480   |
| 550    | 5.5  | 550    | 5.5  | 2660   |
| 600    | 6    | 600    | 6    | 2900   |
| 700    | 7    | 700    | 7    | 3380   |
| 800    | 8    | 800    | 8    | 3880   |
| 900    | 9    | 900    | 9    | 4300   |
| 1000   | 10   | 1000   | 10   | 4600   |
| 1100   | 11   | 1100   | 11   | 5200   |
| 1200   | 12   | 1200   | 12   | 5620   |
| 1300   | 13   | 1300   | 13   | 6100   |
| 1400   | 14   | 1400   | 14   | 6480   |
| 1500   | 15   | 1500   | 15   | 7000   |
| 1600   | 16   | 1600   | 16   | 7500   |
| 1700   | 17   | 1700   | 17   | 8000   |
| 1800   | 18   | 1800   | 18   | 8500   |
| 1900   | 19   | 1900   | 19   | 9000   |
| 2000   | 20   | 2000   | 20   | 9400   |
| 2100   | 21   | 2100   | 21   | 9850   |
| 2200   | 22   | 2200   | 22   | 10300  |
| 2300   | 23   | 2300   | 23   | 10750  |
| 2400   | 24   | 2400   | 24   | 11200  |
| 2500   | 25   | 2500   | 25   | 11600  |
| 3000   | 30   | 3000   | 30   | 14500  |
| 3500   | 35   | 3500   | 35   | 16500  |
| 4000   | 40   | 4000   | 40   | 18500  |
| 4500   | 45   | 4500   | 45   | 21000  |
| 5000   | 50   | 5000   | 50   | 23500  |
| 5500   | 55   | 5500   | 55   | 26000  |
| 6000   | 60   | 6000   | 60   | 28000  |
| 6500   | 65   | 6500   | 65   | 30000  |
| 7000   | 70   | 7000   | 70   | 32500  |
| 7500   | 75   | 7500   | 75   | 35000  |
| 8000   | 80   | 8000   | 80   | 37000  |
| 8500   | 85   | 8500   | 85   | 39500  |
| 9000   | 90   | 9000   | 90   | 41080  |
| 9500   | 95   | 9500   | 95   | 43000  |
| 15000  | 150  | 15000  | 150  | 69400  |
| 20000  | 200  | 20000  | 200  | 92500  |
| 30000  | 300  | 30000  | 300  | 138500 |
| 40000  | 400  | 40000  | 400  | 185000 |
| 50000  | 500  | 50000  | 500  | 231000 |
| 60000  | 600  | 60000  | 600  | 277500 |
| 70000  | 700  | 70000  | 700  | 323500 |
| 80000  | 800  | 80000  | 800  | 370000 |
| 90000  | 900  | 90000  | 900  | 415500 |
| 100000 | 1000 | 100000 | 1000 | 462000 |
| 125000 | 1250 | 125000 | 1250 | 578000 |
| 150000 | 1500 | 150000 | 1500 | 694000 |
| 175000 | 1750 | 175000 | 1750 | 810000 |

|        |      |        |      |        |
|--------|------|--------|------|--------|
| 200000 | 2000 | 200000 | 2000 | 925000 |
|--------|------|--------|------|--------|

\* = Tables from the Liquid control web site (<http://www.liquidcontrol.com/eToolbox/viscosity.html>) or [view a pdf copy here](#)



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