

CONVERSION between  
STORMER VISCOMETER KREBS UNITS  
and VISCOSITY CUP DRAIN TIME



**Paul N. Gardner Company, Inc.**

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# CONVERSION between STORMER VISCOMETER KREBS UNITS and VISCOSITY CUP DRAIN TIME

## THREE STEP CONVERSION PROCESS

Step 1: Knowing the Krebs value, convert this value to Centipoise viscosity. On the attached Krebs Units to Centipoise conversion chart, read vertically from the known Krebs unit to the curve and then horizontally to the left to the Centipoise value. Record this value.

Step 2: Convert the Centipoise value for the test material in question to Centistokes. On the attached Centipoise - Centistoke conversion chart, locate the Centipoise value from Step 1 on the vertical scale. Read horizontally to the right from this value to the Weight Per Gallon or Specific Gravity line, estimating values between lines, applicable to the test material in question. From this intersection read directly downward to the horizontal Centistoke scale and record this value.

Step 3: Determine the drain time in seconds for the viscosity cup in question from the Centistoke value from Step 2. For this conversion, refer to the Gardco Viscosity Cup Equivalent Chart or the conversion chart furnished with each Gardco produced viscosity cup.

Only viscosity cups accommodating the highest range of viscosity are satisfactory for this conversion as most Krebs measurements are in the range from 500 to 1400 Centistokes. For satisfactory results, do not use a viscosity cup above its recommended top limit.

This conversion is accurate only for Newtonian or near Newtonian materials. Viscosity of materials that deviate greatly from these true liquids may not be "seen" the same by the Stormer and viscosity cup methods of measurement.

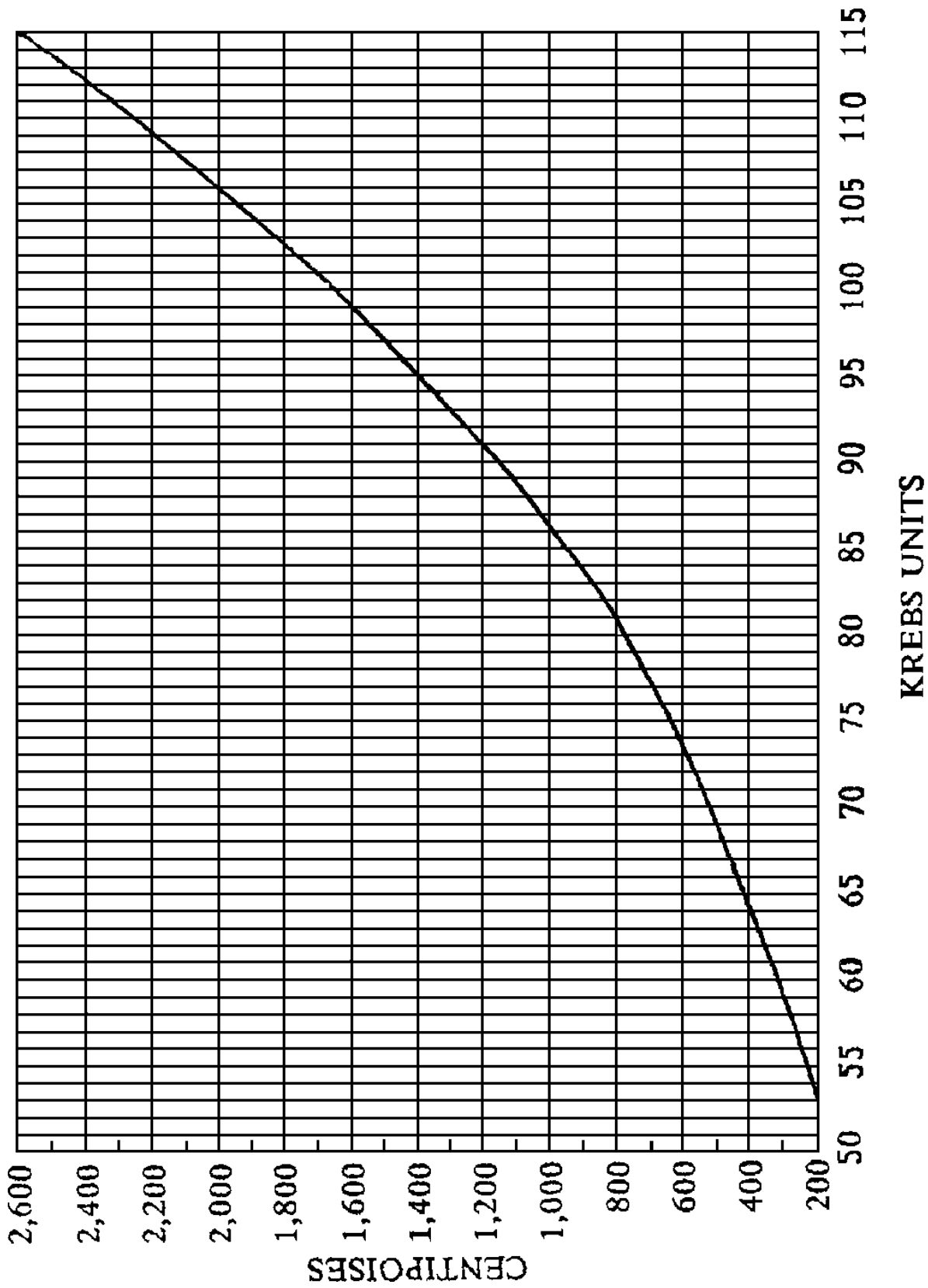
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# KREBS UNITS TO CENTIPOISE VISCOSITY CONVERSION

FURNISHED AS A COURTESY OF THE PAUL N. GARDNER COMPANY

THIS GRAPH IS BASED ON THE BEST AVAILABLE INFORMATION  
BUT IS NOT CONFIRMED EXPERIMENTALLY BY THE PAUL N. GARDNER COMPANY

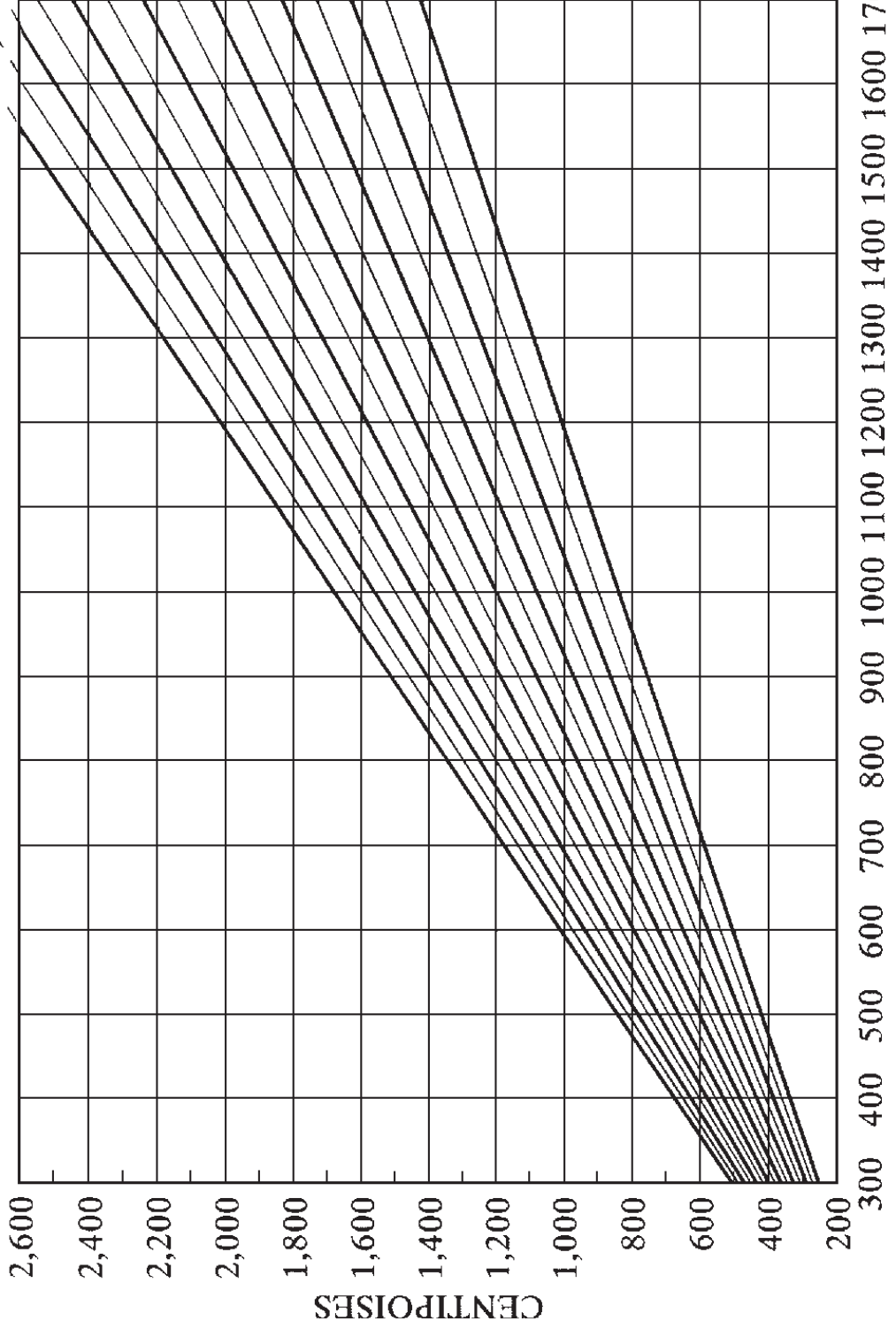


# CEN TI POISE - CEN TI STO KE CONVERSION

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*	**
14.0,	1.68
13.5,	1.62
13.0,	1.56
12.5,	1.50
12.0,	1.44
11.5,	1.38
11.0,	1.32
10.5,	1.26
10.0,	1.20
9.5,	1.14
9.0,	1.08
8.5,	1.02
8.0,	0.96
7.5,	0.90
7.0,	0.84

\* WEIGHT PER GALLON, \*\* SPECIFIC GRAVITY



CEN TI STO KE S