About this document

This document contains screenshots of software available from Cheresources.com. You can find this title in our online store at:

http://www.cheresources.com/cheplusstore/catalogue.php

Clicking the above link should activate your default browser and launch the site.

We recommend using our search feature to find the title.

If you haven't visited our site before, you can find the main page at:

http://www.cheresources.com

Thanks for visiting our site,

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Content Based
Chemical Engineering

VISC - calculates viscosity/temperature formula for liquids

BASIS: Based on PERRY'S CHEMICAL ENGINEERS HANDBOOK viscosity nomographs indicate the linear relationship of (1/TEMP abs.) vs natural log(visc), this is known as the Andrade correlation. Given two data points for any liquid, the program calculates this relationship for the liquid.

NOTE: Always begin a new case by retrieving the original file. Direct entry of data in cells that originally contain table lookups could cause functions to be lost, or incorrect calculations. I format cells requiring entry colored **RED**; calculated values are black.

1.) Enter Point 1 temperature and viscosity at [D7] & [E7].
2.) Enter Point 2 temperature and viscosity at [D8] & [E8].
3.) Enter fluid name at [C4].
4.) Enter fluid temperature at [C11] to determine viscosity [C14].
5.) Depress the "macro" Calculate button to WRITE the equation at D18.

Print out using direct Excel commands. This application is provided by Chemical Engineers Resource Website, vischeresources.com for additional selections.

Print out using direct EXCEL commands.

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04/25/04

VISCOSITY calculator - liquids

Fluid Name : MULTITHERM PG-1

	Temp °F	Visc cps		Viscosity Calculation 1/(TEMPabs)	@ln(VISC)
Point 1	100	49.7		0.0017857	3.9060049
Point 2	130	27.5		0.0016949	3.314186

slope : 6517.8991

Fluid Temp : 120 °F

intercept : -7.733101

VISC = =EXP(6517.899132*1/(TEMP+460)+(-7.733101))

= 33.27 centipose

New Name	Viscosity Equation
MULTITHERM PG-1	=EXP(6517.899132*1/(TEMP+460)+(-7.733101))

The name and equation can now be copied to necessary spreadsheets, then converted from TEXT to an equation.