

Refutas viscosity blending equation

$\left. \begin{matrix} (1) \\ \end{matrix} \right\} \nu_{12} = \exp \left[\exp \left(\frac{A_{12} - 10.975}{14.534} \right) - 0.8 \right]$	$\left. \begin{matrix} (2) \\ \end{matrix} \right\} A_{12} = y_1 A_1 + y_2 A_2$	$\left. \begin{matrix} (3) \\ \end{matrix} \right\} A_i = 14.534 \ln [\ln (\nu_i + 0.8)] + 10.975, \quad i = \{1, 2\}$
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where

ν_{12}	kinematic viscosity of fluid mixture	ν_1	kinematic viscosity of the 1 st fluid component	ν_2	kinematic viscosity of the 2 nd fluid component
		y_1	weight fraction of the 1 st fluid component	y_2	weight fraction of the 2 nd fluid component

See also

[Physics](#) / [Fluid Dynamics](#) / [Fluid Mixing Rules](#) / [Mixing Rules for Viscosity](#)

References

ASTM D7152, Standard Practice for Calculating Viscosity of a Blend of Petroleum Products. ASTM Book of Standards, vol. 05.04.