Diffusion coefficient of hexadecane in hexane

3 Diffusion in Liquid Mixtures

3.1. Data

3.1.1. Diffusion in Binary Mixtures

$C_{16}H_{34}$	(1)	hexadecane	544-76-3
C_6H_{14}	(2)	hexane	110-54-3
Mutual Diffusion Coefficient: $D_{12}(w_i)$; $T = 298.15 \pm 0.1$ K; Method: CT			Ref.: [2012D3]
w_1	p [kPa]	$D \cdot 10^9$ [m^2/s]	
0.500	101.32	$1.54 \pm 3\%$	
Comment: CT (Loschmidt tube) in liquid mixtures it is called Sliding Symmetric Tubes			

Symbols and Abbreviations

Short Form	Full Form
D	diffusion coefficient
p	pressure
T	temperature
CT	Loschmidt cell (closed tube)
w_i	mass fraction

References

[2012D3] de Mezquia D. A., Bou-Ali, M. M., Larranaga, M., Madariaga, J. A., Santamaria, C.: J. Phys. Chem. B **116** (2012) 2814–2819.

https://doi.org/10.1007/978-3-662-54089-3_1082