Diffusion coefficient of hexanoic acid in water

3 Diffusion in Liquid Mixtures

3.1. Data

3.1.1. Diffusion in Binary Mixtures

$C_6\,H_{12}\,O_2$	(1)	hexanoic acid	142-62-1
$H_2\,O$	(2)	water	7732-18-5
Mutual Diffusion Coefficient: $D_{12}(x_i)$; $T = 298.15 \pm 0.1$ K; Method: DIA			Ref.: [1963B1]
c_1 [mol/L]	p [kPa]	$D \cdot 10^9$ [m^2/s]	
0.022	101.32	0.784 ± 0.5%	

Symbols and Abbreviations

Short Form	Full Form
D	diffusion coefficient
p	pressure
T	temperature
DIA	diaphragm cell
c_i	molarity

References

[1963B1] Bidstrup, D. E., Geankoplis, C. J.: J. Chem. Eng. Data **8** (1963) 170–173.

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