Diffusion coefficient of b-D-fructofuranosyl-a-D-glucopyranoside monooctanoate in dideuterium oxide

3 Diffusion in Liquid Mixtures

3.1. Data

3.1.1. Diffusion in Binary Mixtures

$C_{20}H_{36}O_{12}$	(1)	b-D-fructofuranosyl-a-D-glucopyranoside monooctanoate	42922-74-7
D_2O	(2)	dideuterium oxide	7789-20-0
Intradiffusion Coefficient: D_{1T} (c_1); $T = 298.15 \pm 0.2$ K; Method: NMR PG			Ref.: [2005M3]
c_1 [mol/L]	p [kPa]	$D \cdot 10^9$ [m^2/s]	
0.030	101.32	$0.359 \pm 2\%$	

Symbols and Abbreviations

Short Form	Full Form
D	diffusion coefficient
p	pressure
T	temperature
NMR PG	NMR spin echo pulse gradient
c_i	molarity

References

[2005M3] Molinier V., Fenet, B., Fitremann, J., Bouchu, A., Queneau, Y.: J. Colloid Interface Sci. **286** (2005) 360–368.

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