

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

3 Diffusion in Liquid Mixtures

3.1. Data

3.1.1. Diffusion in Binary Mixtures

C ₂₈ H ₅₂ O ₁₂	(1)	b-D-fructofuranosyl-a-D-glucopyranoside monohehexadecanoate	26446-38-8
D ₂ O	(2)	dideuterium oxide	7789-20-0
Intradiffusion Coefficient: $D_{1T}(c_1)$; $T = 313.15 \pm 0.2$ K; Method: NMR PG			Ref.: [2005M3]
c_1 [mol/L]	p [kPa]	$D \cdot 10^9$ [m ² /s]	
0.0	101.32	0.34 \pm 10%	

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.