

Diffusion coefficient of 2-(hydroxymethyl)-6-[3,4,5-trihydroxy-6-(hydroxymethyl)oxan-2-yl]oxyoxane-3,4,5-triol in dideuterium oxide

3 Diffusion in Liquid Mixtures

3.1. Data

3.1.1. Diffusion in Binary Mixtures

$C_{12} H_{22} O_{11}$	(1)	2-(hydroxymethyl)-6-[3,4,5-trihydroxy-6-(hydroxymethyl)oxan-2-yl]oxyoxane-3,4,5-triol	99-20-7
$D_2 O$	(2)	dideuterium oxide	7789-20-0
Intradiffusion Coefficient: $D_{1T}(x_i)$; $T = 298.15$ K; Method: NMR FG			Ref.: [1975E1]
w_1	p [kPa]	$D \cdot 10^9$ [m ² /s]	
0.040	101.32	0.393 ± 0.007	

Symbols and Abbreviations

Short Form	Full Form
D	diffusion coefficient
p	pressure
T	temperature
w_i	mass fraction
NMR FG	NMR spin echo field gradient

References

- [1975E1] Emel'yanov, M. I., Popov, G. V., Nikiforov, E. A., Kozhevnikova, A. Ya., Yambatrov, B. I.: Zh. Strukt. Khim. **16** (1975) 177–181.