

Diffusion coefficient of N,N-dimethyl-formamide in methanol

3 Diffusion in Liquid Mixtures

3.1. Data

3.1.1. Diffusion in Binary Mixtures

C ₃ H ₇ NO	(1)	N,N-dimethyl-formamide	68-12-2
C ₁ H ₄ O	(2)	methanol	67-56-1
Intradiffusion Coefficient: $D_{1T}(c_i)$; $T = 298.15 \pm 0.2$ K; Method: NMR PG			Ref.: [2001H2]
c_1 [mol/dm ³]	p [kPa]	$D \cdot 10^9$ [m ² /s]	
3.40*	101.32	0.73 ± 0.01	
3.40	101.32	0.83 ± 0.01	

Comment: *: value in fully deuterated solvent

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

[2001H2] Hickey K., Waghorne, W. E., Sacco, A.: J. Phys. Chem. A **105** (2001) 1093–1096.