

Diffusion coefficient of 2,6,6-trimethylbicyclo[3.1.1]hept-2-ene in 2,6,6-trimethylbicyclo[3.1.1]heptan-3-ol

3 Diffusion in Liquid Mixtures

3.1. Data

3.1.1. Diffusion in Binary Mixtures

C ₁₀ H ₁₆	(1)	2,6,6-trimethylbicyclo [3.1.1]hept-2-ene	80-56-8
C ₁₀ H ₁₈ O	(2)	2,6,6-trimethylbicyclo [3.1.1]heptan-3-ol	27779-29-9
Intradiffusion Coefficient: $D_{1T}(x_i)$; $T = 298.15$ K; Method: NMR PG			Ref.: [1981S3]
x_1	p [kPa]	$D \cdot 10^9$ [m ² /s]	
0.50	101.32	0.82 ± 0.05	
Intradiffusion Coefficient: $D_{2T}(x_i)$; $T = 298.15$ K; Method: NMR PG			Ref.: [1981S3]
x_1	p [kPa]	$D \cdot 10^9$ [m ² /s]	
0.50	101.32	0.57 ± 0.03	

Symbols and Abbreviations

Short Form	Full Form
D	diffusion coefficient
p	pressure
T	temperature
NMR PG	NMR spin echo pulse gradient
x_i	mole fraction

References

[1981S3] Stilbs, P.: Anal. Chem. **53** (1981) 2135–2137.