

Diffusion coefficient of diethyl ether in carbon disulfide

3 Diffusion in Liquid Mixtures

3.1. Data

3.1.1. Diffusion in Binary Mixtures

C ₄ H ₁₀ O	(1)	diethyl ether	60-29-7
C S ₂	(2)	carbon disulfide	75-15-0
Integral Diffusion coefficient: (w_i); $T = 298.15$ K*; Method: DLS			Ref.: [1970D5]
w_1	p [kPa]	$D \cdot 10^9$ [m ² /s]	
0.10	101.32	3.1 ± 0.2	
0.01	101.32	2.9 ± 0.4	

Comment: *: measurements probably at room temperature; **: NMR result

Symbols and Abbreviations

Short Form	Full Form
D	diffusion coefficient
p	pressure
T	temperature
w_i	mass fraction
DLS	dynamic light scattering

References

[1970D5] Dubois, M., Berge, P., Laj, C.: Chem. Phys. Lett. **6** (1970) 227–230.