

Diffusion coefficient of tetrapropyl-stannane in propan-2-one at infinite dilution

3 Diffusion in Liquid Mixtures

3.1. Data

3.1.2. Diffusion in Binary Mixtures at Infinite Dilution

C ₁₂ H ₂₈ Sn	(1)	tetrapropyl-stannane	2176-98-9
C ₃ H ₆ O	(2)	propan-2-one	67-64-1
Diffusion Coefficient at infinite dilution: $p = 101.325$ kPa; Method: TAYLOR			Ref.: [1992C5]
T [K]	Type	$D \cdot 10^9$ [m ² /s]	
298.15 ± 0.02	$D^0_{1(2)}$	2.36 ± 0.03	
Diffusion Coefficient at infinite dilution: $p = 101.325$ kPa; Method: TAYLOR			Ref.: [1979E2]
T [K]	Type	$D \cdot 10^9$ [m ² /s]	
283.15 ± 0.01	$D^0_{1(2)}$	1.93 ± 0.02	
298.15 ± 0.01	$D^0_{1(2)}$	2.36 ± 0.03	
Comment: data are identical to those in [1981E2] and in [1977E3]			

Symbols and Abbreviations

Short Form	Full Form
D	diffusion coefficient
p	pressure
T	temperature
TAYLOR	Taylor dispersion technique

References

- [1977E3] Evans, D. F., Chan, C., Lamartine, B. C.: J. Am. Chem. Soc. **99** (1977) 6492.
 [1979E2] Evans, D. F., Tominaga, T., Chan, C.: J. Solution Chem. **8** (1979) 461–478.
 [1981E2] Evans, D. F., Tominaga, T., Davis, H. T.: J. Chem. Phys. **74** (1981) 1298–1305.
 [1992C5] Chan, T. C., Chan, M. L.: J. Chem. Soc., Faraday Trans. **88** (1992) 2371–2374.