

Diffusion coefficient of decane in 2-methyl-naphthalene

3 Diffusion in Liquid Mixtures

3.1. Data

3.1.1. Diffusion in Binary Mixtures

$C_{10}H_{22}$	(1)	decane	124-18-5
$C_{11}H_{10}$	(2)	2-methyl-naphthalene	91-57-6
Mutual Diffusion Coefficient: $D_{12}(w_i)$; $T = 298.15$ K; Method: INT			Ref.: [1973G2]
w_1	p [kPa]	$D \cdot 10^9$ [m ² /s]	
0.0	101.32	0.470	
0.0173	101.32	0.4731	
0.4055	101.32	0.5580	
0.4299	101.32	0.5577	
0.9670	101.32	1.380	
1.0000	101.32	1.4114	

Symbols and Abbreviations

Short Form	Full Form
D	diffusion coefficient
p	pressure
T	temperature
INT	interferometry
w_i	mass fraction

References

[1973G2] Ghai, R. K., Ertl, H., Dullien, F. A. L.: *AIChE J.* **19** (1973) 881–900.