

# Diffusion coefficient of (E)-2-butenedioic acid in dideuterium oxide

## 3 Diffusion in Liquid Mixtures

### 3.1. Data

#### 3.1.1. Diffusion in Binary Mixtures

C <sub>4</sub> H <sub>4</sub> O <sub>4</sub>	(1)	(E)-2-butenedioic acid	110-17-8
D <sub>2</sub> O	(2)	dideuterium oxide	7789-20-0
Intradiffusion Coefficient: $D_{1T}(c_i)$ ; $T = 298.15$ K; Method: NMR DOSY			Ref.: [2012C1]
$c_1$ [mol/L]	$p$ [kPa]	$D \cdot 10^9$ [m <sup>2</sup> /s]	
0.015	101.32	0.914 ± 0.19	

### Symbols and Abbreviations

Short Form	Full Form
$D$	diffusion coefficient
$p$	pressure
$T$	temperature
NMR DOSY	NMR diffusion ordered spectroscopy
$c_i$	molarity

### References

[2012C1] Chaudhari S. R., Suryaprakash, N.: J. Mol. Struct. 1017 (2012) 106–108.