

Electronic Supplementary Information (ESI)

On the ideality of binary mixtures of ionic liquids

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1 Combined distribution functions (CDF)

The supporting information contain all the CDFs for the atom combinations which were not shown in the article.

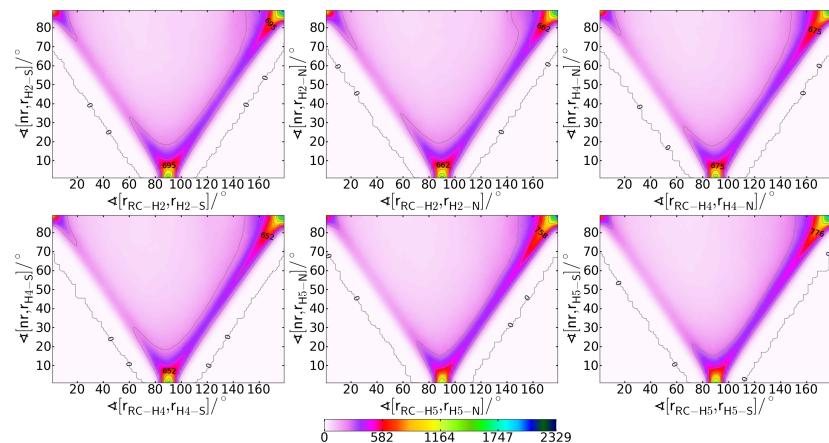


Fig. 1 C ($\Delta[r_{RC-Hx}, r_{Hx-X}]$, $\Delta[nr, r_{Hx-X}]$) for pure a.

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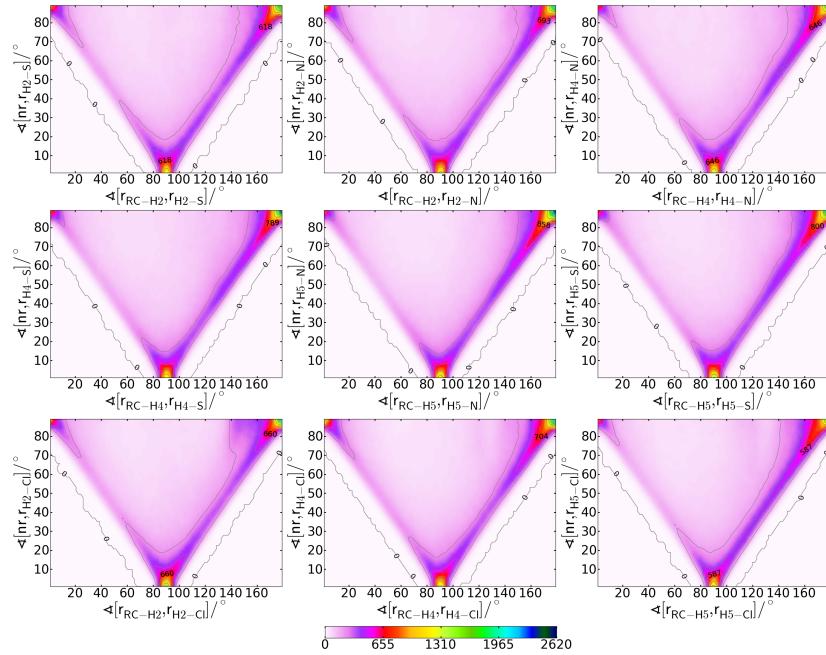


Fig. 2 C ($\Delta[\mathbf{r}_{\text{RC}-\text{Hx}}, \mathbf{r}_{\text{Hx}-\text{X}}]$, $\Delta[\mathbf{nr}, \mathbf{r}_{\text{Hx}-\text{X}}]$) for mix I.

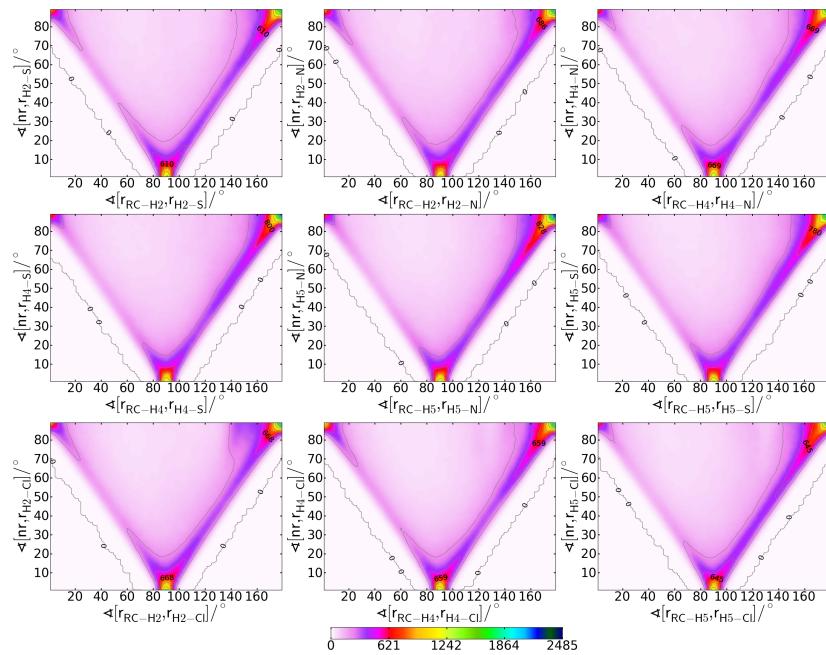


Fig. 3 C ($\Delta[\mathbf{r}_{\text{RC}-\text{Hx}}, \mathbf{r}_{\text{Hx}-\text{X}}]$, $\Delta[\mathbf{nr}, \mathbf{r}_{\text{Hx}-\text{X}}]$) for mix II.

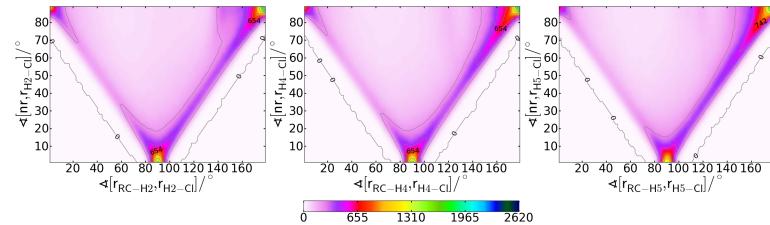


Fig. 4 C($\triangle[r_{RC-Hx}, r_{Hx-X}]$, $\triangle[nr, r_{Hx-X}]$) for pure b.

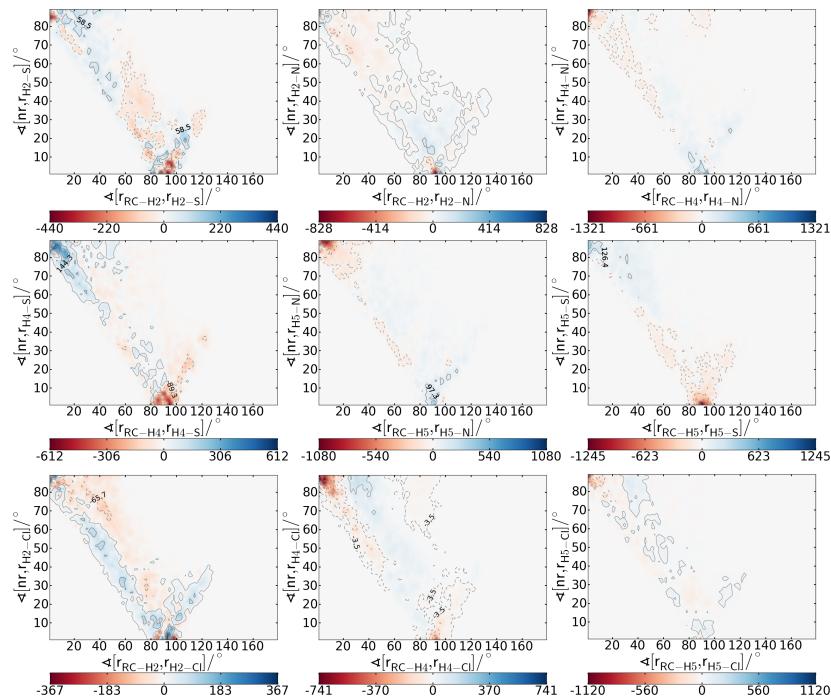


Fig. 5 Difference plot (C($\triangle[r_{RC-Hx}, r_{H4-S}]$, $\triangle[nr, r_{Hx-X}]$)) for mix I-mix II.

1 COMBINED DISTRIBUTION FUNCTIONS (CDF)

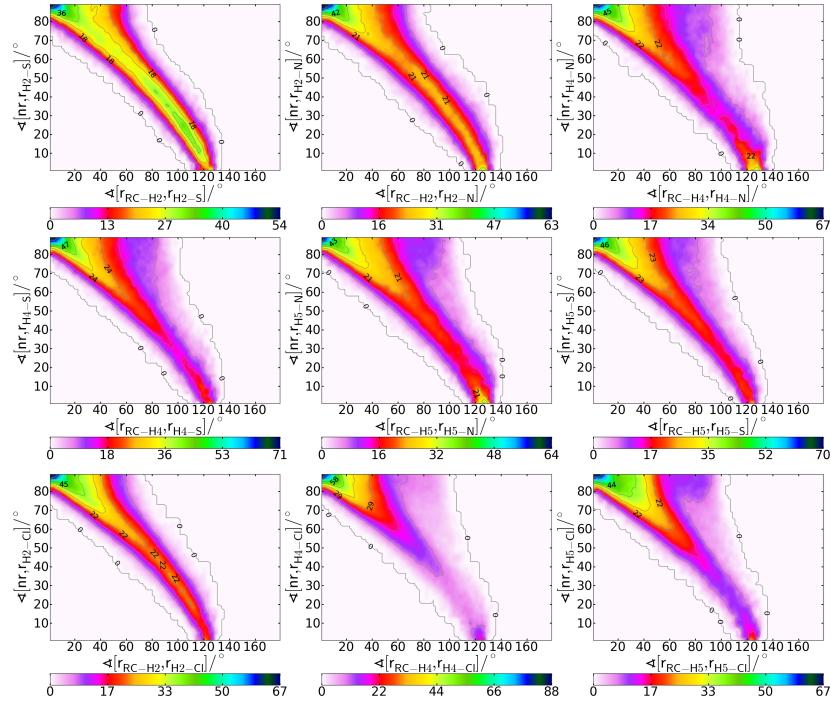


Fig. 6 C ($\triangle[r_{RC-Hx}, r_{Hx-X}]$, $\triangle[nr, r_{Hx-X}]$) for mix I.

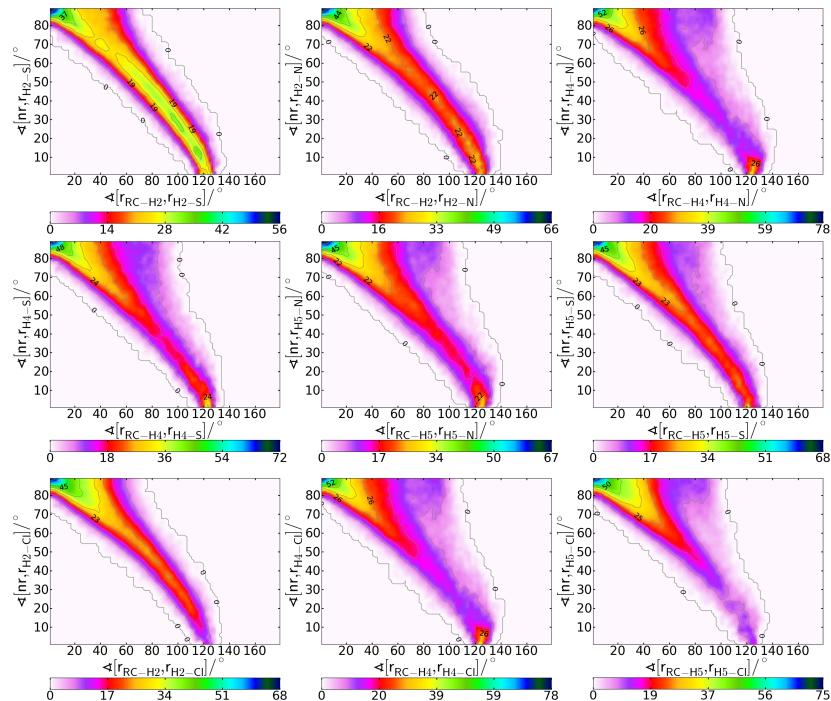


Fig. 7 C ($\triangle[r_{RC-Hx}, r_{Hx-X}]$, $\triangle[nr, r_{Hx-X}]$) for mix II.

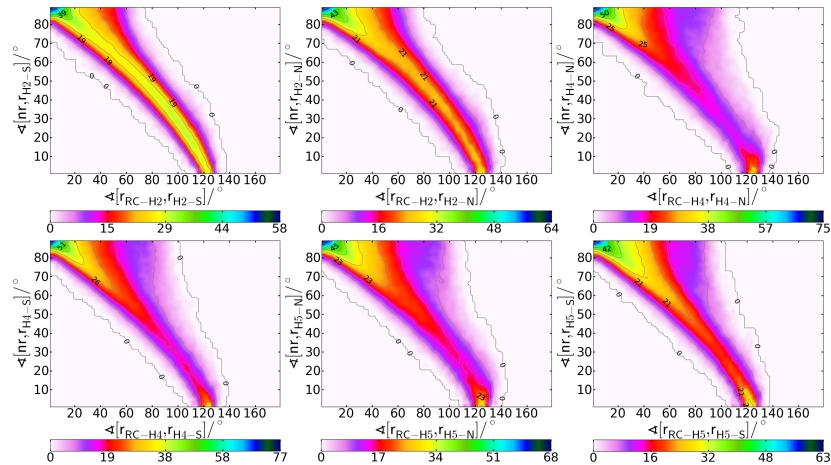


Fig. 8 C ($\triangle[r_{RC-Hx}, r_{Hx-X}]$, $\triangle[nr, r_{Hx-X}]$) for pure a.

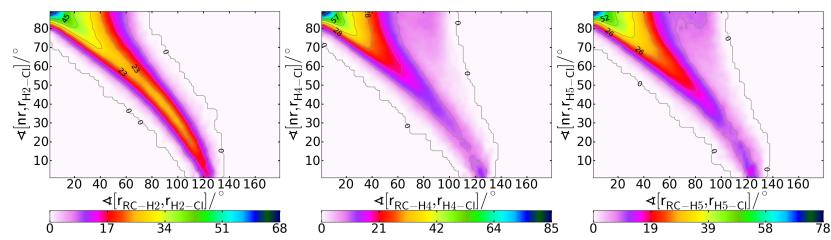


Fig. 9 C ($\triangle[r_{RC-Hx}, r_{Hx-X}]$, $\triangle[nr, r_{Hx-X}]$) for pure b.

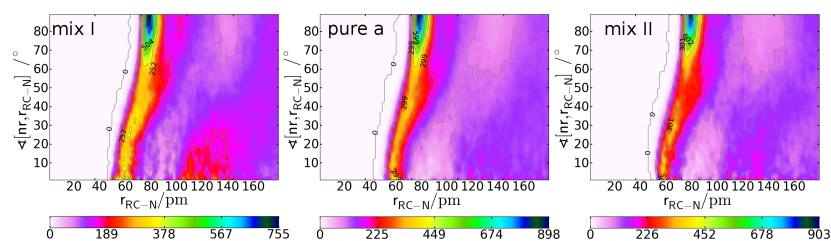


Fig. 10 C (r_{RC-N} , $\triangle[nr, r_{RC-N}]$) for mix I (left), pure a (middle) and mix II (right).