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Supporting information for article:

Carbon-atom hybridization tunes the halogen-bond strength in the series of DABCO·$C_2H_{2n}I_2$ (*n* = 0–2) cocrystals

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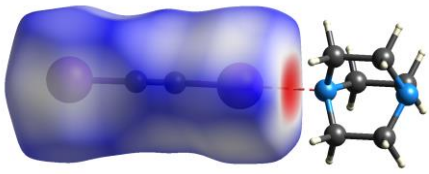
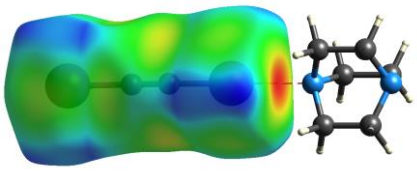
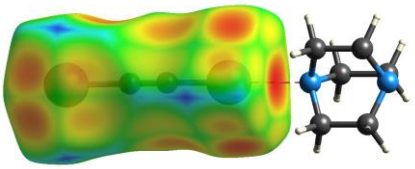
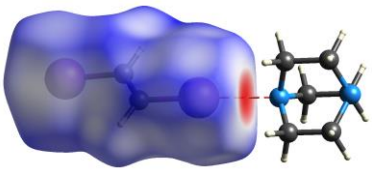
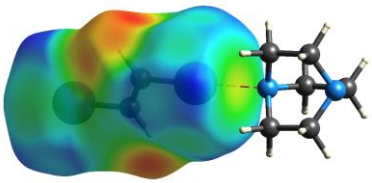
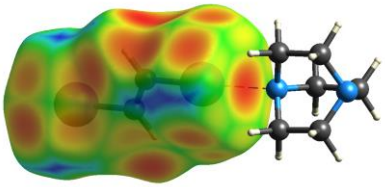
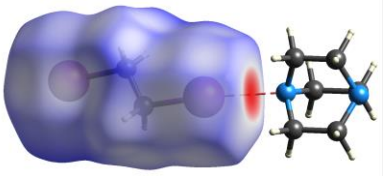
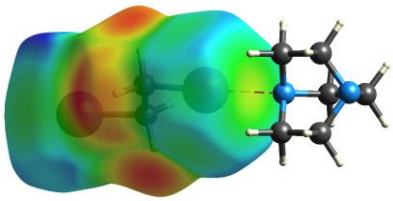
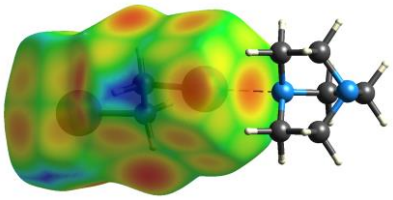
Table S1 Hirshfeld surface maps (d_{norm}, d_i and d_e) for C_2I_2 in **1**, 1,2-$C_2H_2I_2$ in **2** and 1,2-$C_2H_4I_2$ in **3**; d_e is the distance from the Hirshfeld surface to the nearest nucleus outside the surface, d_i is the corresponding distance to the nearest nucleus inside the surface and d_{norm}, is a normalized contact distance.

	d_{norm}	d_i	d_e
1			
2			
3			

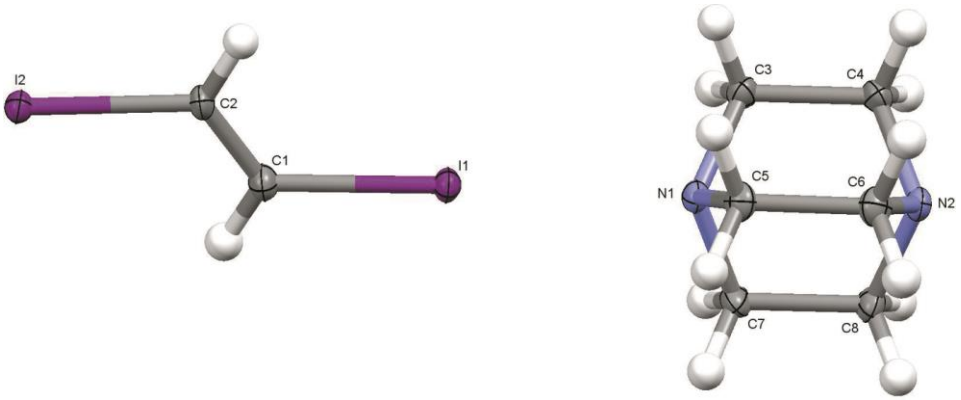


Figure S1. Showing the bimolecular fragment of the crystal structure **2**. Thermal displacement ellipsoids are drawn at the 50% probability level.

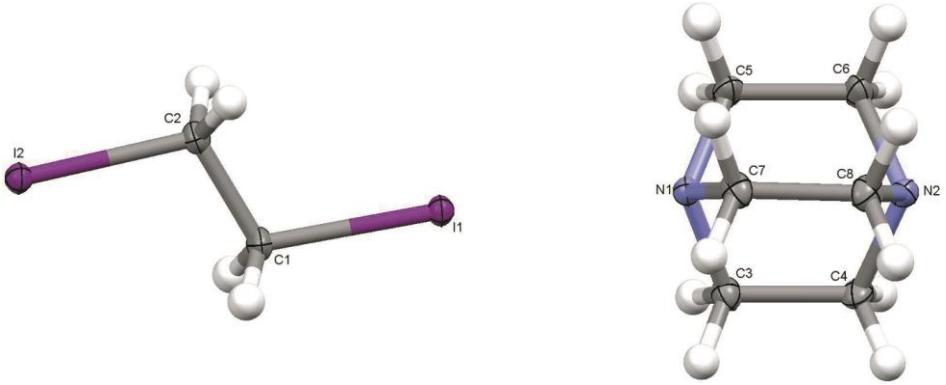


Figure S2. Showing the bimolecular fragment of the crystal structure **3**. Thermal displacement ellipsoids are drawn at the 50% probability level.