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"Supporting Information to be published electronically"

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FOR

Controlled Hydrolysis of Aryltellurium(IV) Trichlorides using 2-Pyrrolidinones: Isolation and Structural Characterization of Monomeric Aryltellurium(IV) Monohydroxides†

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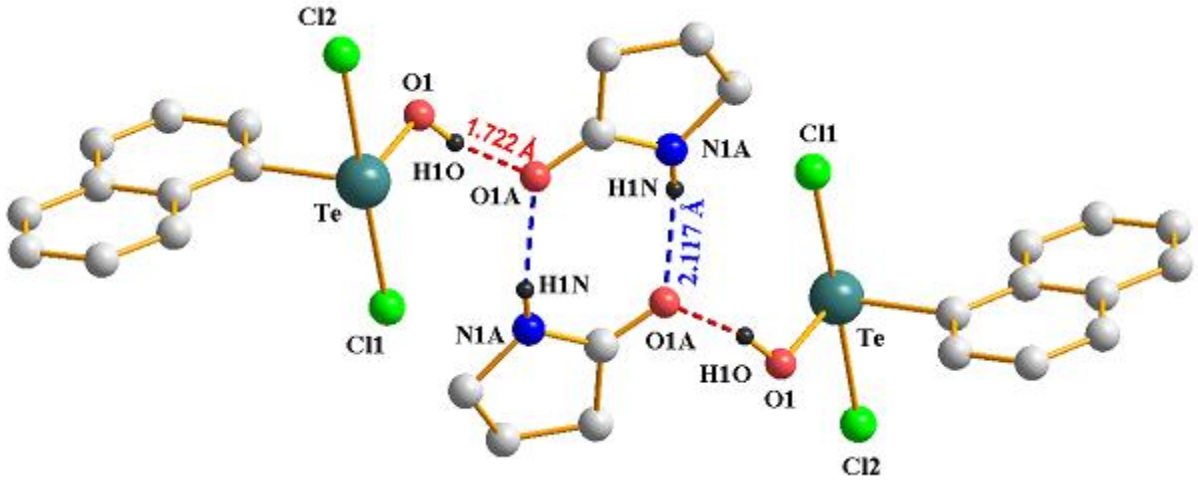

Figure S1. A centrosymmetric dimer of the adduct $NplTeCl_2OH.Pyrr$, (**1**).

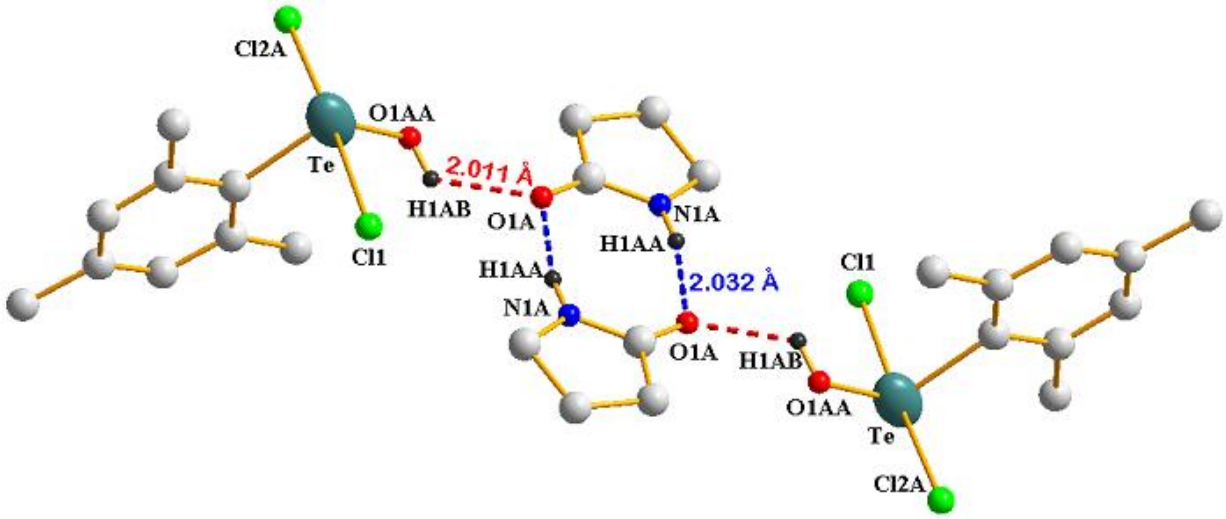

Figure S2. A centrosymmetric dimer of the adduct $MesTeCl_2OH.Pyrr$, (**2**).

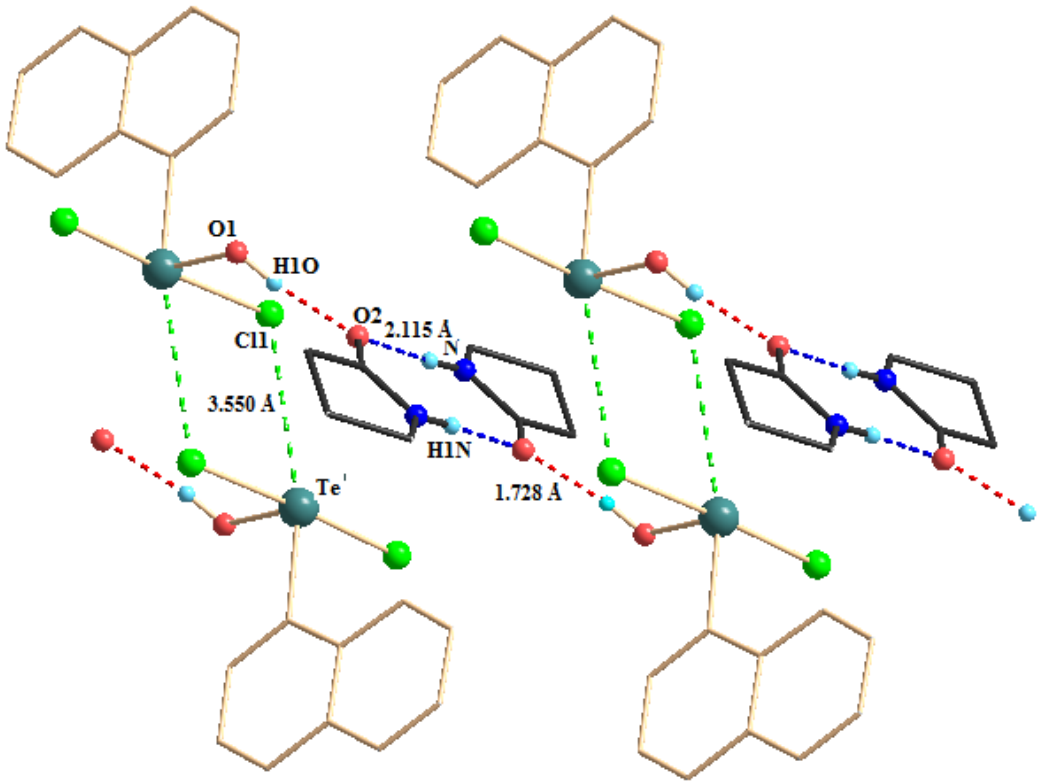

Figure S3. A 1-D supramolecular array in the crystal lattice of **1**.

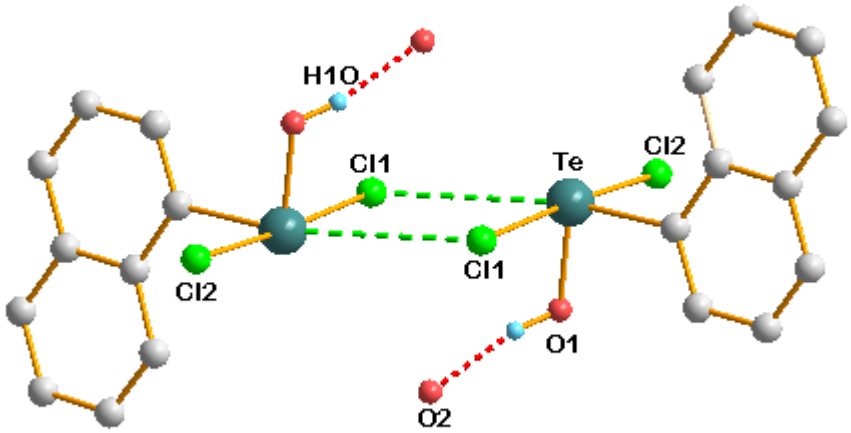

Figure S4. A Te···Cl bonded centrosymmetric pair of $NplTeCl_2OH$ in the crystal lattice of **1**.

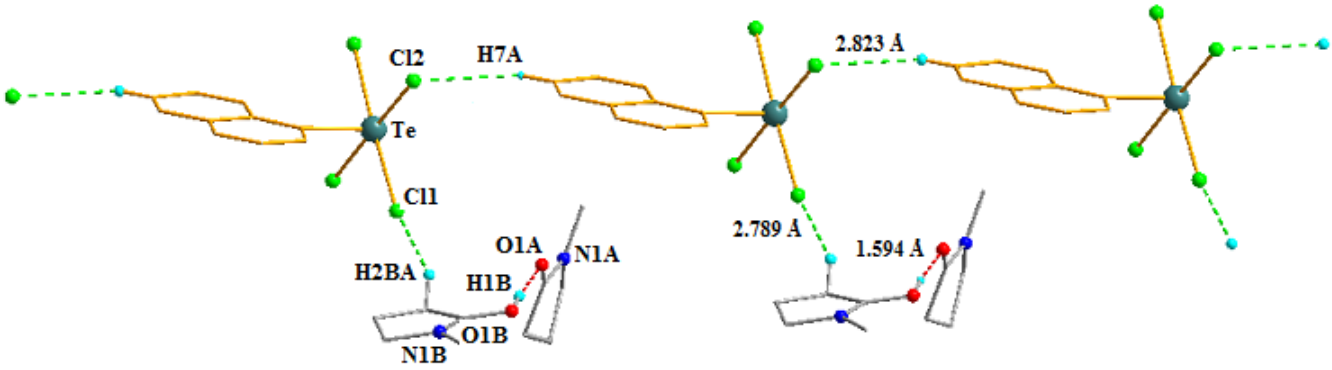

Figure S5. 1-D supramolecular array of square pyramidal anions in the crystal lattice of **5**.

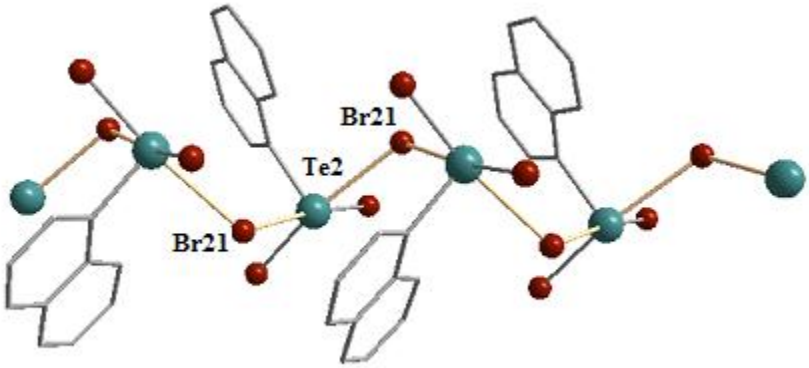

Figure S6. One of the two arrays of square pyramidal $NplTeBr_4$ units in the crystal lattice of **4**.

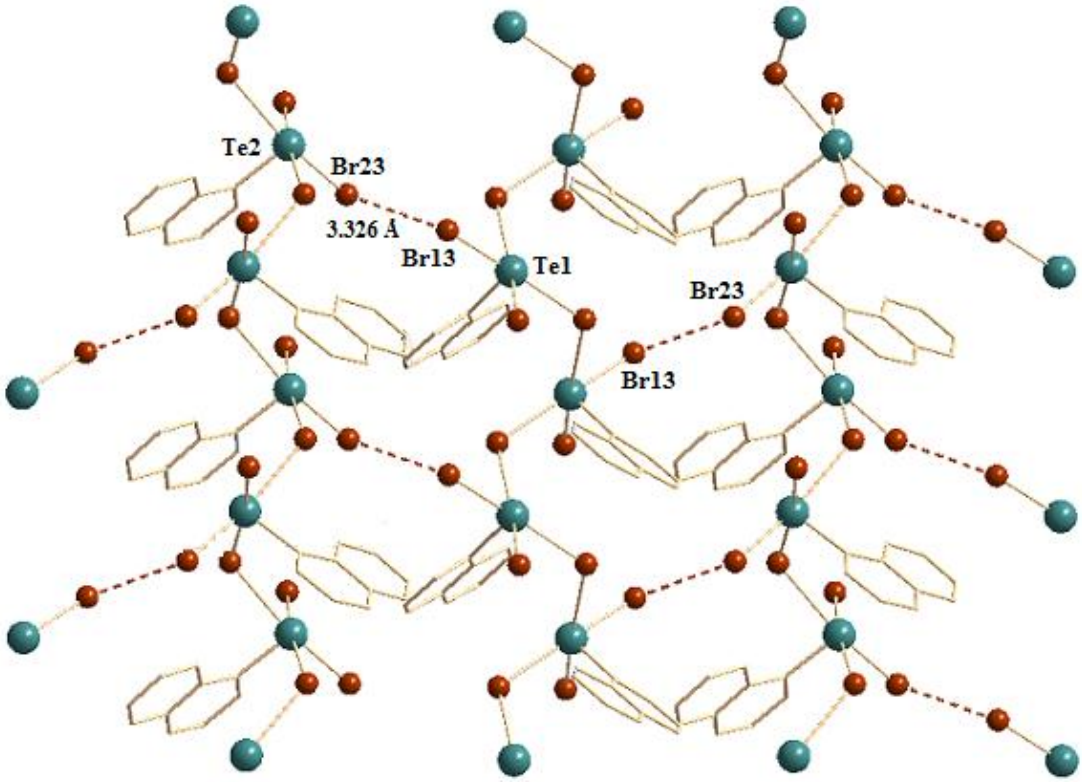

Figure S6. A 2-D supramolecular architecture formed by Te···Br and Br···Br interactions in the crystal lattice of **4**

Table S1. Bond parameters for D─H···A interactions.

Compd. No.	D─H···A	d(D─H) (Å)	d(H···A) (Å)	d(D···A) (Å)	∠ (DHA) (°)	Symmetry operation
1	O(1)–H(1O)···O(1A)	0.85(3)	1.73(3)	2.556(2)	166(3)	
	N(1A)–H(1N)···O(1A)	0.82(2)	2.12(2)	2.925(2)	168(2)	–x+3/2,–y+1/2,–z+1
2	O(1AA)–H(1AB)···O(1A)	0.82	2.428	3.332(6)	128.4	
	O(1AB)–H(1AC)···O(1A)	0.82	1.65	2.459(9)	168.8	
	N(1A)–H(1AA)···O(1A)	0.89(3)	2.03(3)	2.903(3)	167(3)	–x, –y, –z+1
4	C(9B)–H(9BA)...Br(21)	0.95	2.84	3.419(11)	120.4	–x+1, y–1/2, –z+3/2
	C(4A)–H(4AA)...Br(11)	0.95	2.97	3.827(12)	151.2	–x, –y+1, –z+1
	C(4B)–H(4BA)...Br(21)	0.95	3.03	3.895(11)	151.6	x, –y+3/2, z–1/2
	C(8A)–H(8AA)...Br(22)	0.95	2.99	3.712(11)	133.6	x–1, –y+1/2, z–1/2
	C(1A)–H(1AA)...O(1B)	0.99	2.28	3.241(4)	163.4	–x+1, y, –z+1/2
5	O(1B)–H(1B)···O(1A)	0.95	1.59	2.427(2)	170.4	x, –1+ y, z
	C(7A)–H(7A)···Cl(2)	0.95	2.82	3.684(2)	151.2	x,–1+y, z
	C(2B)–H(2BA)···Cl(1)	0.99	2.78	3.634(2)	143.6	1–x, 1–y,1–z
	C(9A)–H(9AA)...Br(11)	0.95	2.82	3.386(10)	118.9	–x, y+1/2, –z+1/2
6	C(4A)–H(4AA)...O(2B)	0.99	2.49	3.383(3)	149.6	–x+3/2,–y+1/2,–z+1
	C(4B)–H(4BA)...O(2A)	0.99	2.48	3.363(4)	148.6	x, –y, z–1/2
	C(5B)–H(5BB)...Br(2)	0.99	2.86	3.723(3)	146.4	x, –y, z–1/2
	C(6B)–H(6BB)...O(1B)	0.99	2.46	3.394(6)	157.3	–x+1, –y+1, –z