

Supporting Information

Figure S1. The molecular structure of Cl-MIP CH_2Cl_2 , showing the atom-labeling scheme and thermal ellipsoids drawn at the 50% probability level.

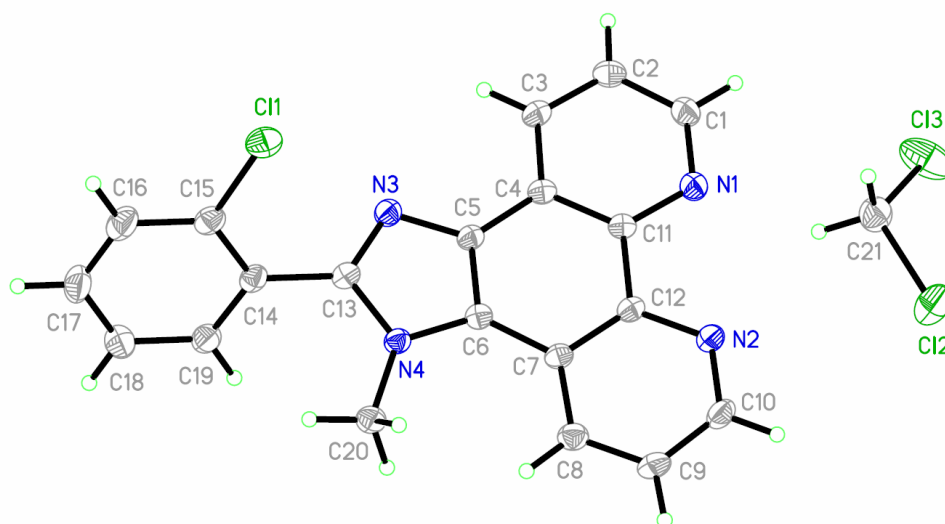


Figure S2. The packing of Cl-IP CH_2Cl_2 views with b-axis. Dashed lines represent the hydrogen bonding.

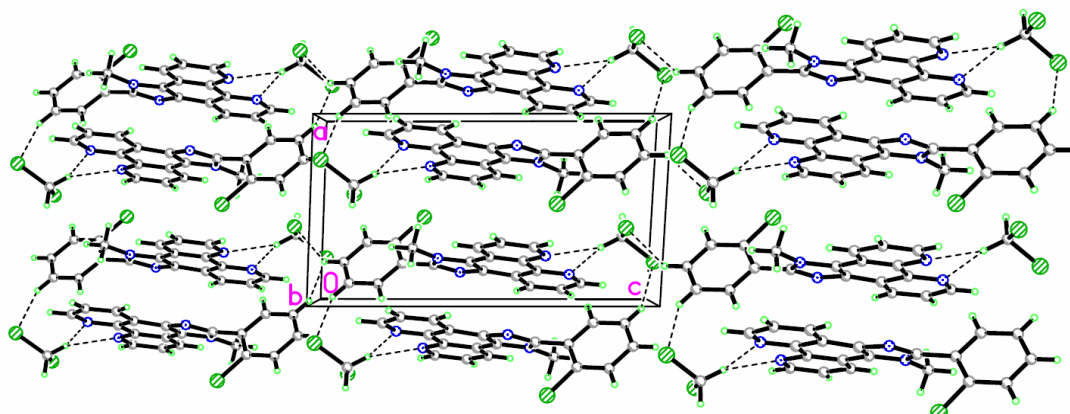


Table S1. Hydrogen Bonds for Cl-MIP [$\text{\AA}$ & angle (degree)].

D-H ... A	d(D-H)	d(H ... A)	d(D ... A)	<(DHA)
C(21)-H(21B) ... N(1)	0.99	2.38	3.241(3)	145.1
C(21)-H(21B) ... N(2)	0.99	2.42	3.286(3)	145.9
C(17)-H(17) ... Cl(2)#1	0.95	2.82	3.588(2)	138.5
C(18)-H(18) ... Cl(3)#2	0.95	2.82	3.629(2)	144.1

Symmetry transformations used to generate equivalent atoms: #1 $x, y-1, z-1$, #2 $-x, -y+1, -z+1$

Table S2. Crystal data and structure refinement for Cl-MIP·CH₂Cl₂

Identification code	Cl-MIP·CH ₂ Cl ₂
Empirical formula	C ₂₁ H ₁₅ Cl ₃ N ₄
Formula weight	429.72
Temperature	150(2) K
Wavelength	0.71073 Å
Crystal system	Triclinic
Space group	P-1
Unit cell dimensions	a = 7.8827(5) Å = 89.3447(14) ° b = 8.7562(6) Å = 87.3009(15) ° c = 14.0231(9) Å = 79.1288(14) °
Volume	949.48(11) Å ³
Z	2
Density (calculated)	1.503 Mg/m ³
Absorption coefficient	0.498 mm ⁻¹
F(000)	440
Crystal size	0.40 × 0.38 × 0.14 mm ³
Theta range for data collection	1.45 to 27.50 °
Index ranges	-10 ≤ h ≤ 10, -11 ≤ k ≤ 11, -18 ≤ l ≤ 18
Reflections collected	12602
Independent reflections	4349 [R(int) = 0.0311]
Completeness to theta = 27.50 °	99.3%
Absorption correction	Semi-empirical from equivalents
Max. and min. transmission	0.9336 and 0.8257
Refinement method	Full-matrix least-squares on F ²
Data / restraints / parameters	4349 / 0 / 254
Goodness-of-fit on F ²	1.116
Final R indices [I > 2sigma(I)]	R1 = 0.0427, wR2 = 0.1112
R indices (all data)	R1 = 0.0508, wR2 = 0.1227
Largest diff. peak and hole	0.616 and -0.552 e.Å ⁻³

Table S3. Crystal data and structure refinement for Eu(dbm)₃Cl-MIP·CH₂Cl₂.

Identification code	Eu(dbm) ₃ Cl-MIP·CH ₂ Cl ₂
Empirical formula	C ₆₆ H ₄₈ Cl ₃ Eu N ₄ O ₆
Formula weight	1251.39
Temperature	150(2) K
Wavelength	0.71073 Å
Crystal system	Monoclinic
Space group	P2(1)/c
Unit cell dimensions	a = 12.2225(6) Å = 90 ° b = 20.7889(10) Å = 96.3883(10) ° c = 22.1103(11) Å = 90 °
Volume	5583.2(5) Å ³
Z	4
Density (calculated)	1.489 Mg/m ³
Absorption coefficient	1.325 mm ⁻¹
F(000)	2536
Crystal size	0.40 × 0.25 × 0.25 mm ³
Theta range for data collection	1.35 to 27.50 °
Index ranges	−15 ≤ h ≤ 15, −25 ≤ k ≤ 27, −28 ≤ l ≤ 28
Reflections collected	42634
Independent reflections	12815 [R(int) = 0.0331]
Completeness to theta = 27.50 °	99.9%
Absorption correction	Semi-empirical from equivalents
Max. and min. transmission	0.7329 and 0.6192
Refinement method	Full-matrix least-squares on F ²
Data / restraints / parameters	12815 / 0 / 722
Goodness-of-fit on F ²	1.055
Final R indices [I > 2σ(I)]	R1 = 0.0348, wR2 = 0.0790
R indices (all data)	R1 = 0.0421, wR2 = 0.0831
Largest diff. peak and hole	1.096 and −0.971 e.Å ⁻³