

ESI index

Solid-state structures (CIF)

CIF filename	Compound	Compound number
16srv167	Cp ₂ NbCl(NDipp)	3
16srv289	{CpNb(μ -Cl)(NDipp)} ₂	5
18srv005	Cp ₂ Nb(NDipp)(PCO) · 5{Cp ₂ NbCl(NDipp)}	12 · 5{ 3 }
18srv112	Cp ₂ NbMe(NDipp)	11
18srv116	Cp ₂ Nb(ClGaCl ₃)(NDipp) · C ₆ D ₆	9 · C ₆ D ₆
18srv197	Cp ₂ Nb(ClGaCl ₃)(N{Dipp·Ga ₂ Cl ₆ })	10
18srv406	[{Cp ₂ NbCl} ₂ (N{2,6- <i>i</i> Pr ₂ C ₆ H ₂ } ₂ N)][BAr ^F ₄] ₂	[18][BAr ^F ₄] ₂
18srv467s	TrBAr ^F ₄	15
18srv502	[Cp ₂ NbCl(NHDipp)]BAr ^F ₄	[13 BAr ^F ₄
19srv036	{Cp ₂ NbCl} ₂ (N{2,6- <i>i</i> Pr ₂ C ₆ H ₂ } ₂ N)	20
19srv084	[Cp ₂ NbCl(NHDipp)]OTf · DCM	[13]OTf · DCM
19srv177	Cp ₂ NbCl(NDipp ^{Tr})	17

Computed structures (MOL2)

MOL2 filename	Compound	Compound reference	Calculation type
(CpTMS) ₂ NbCl(NtBu)	Cp ^{TMS} ₂ NbCl(N'Bu)		Gas-phase
(CpTMS)NbCl ₂ (NtBu)	Cp ^{TMS} NbCl ₂ (N'Bu)		Gas-phase
(eta5-Flu)Nb(NDipp)	(η^5 -Flu)Nb(NDipp)		Gas-phase
(eta9-Flu)Nb(NDipp)	(η^9 -Flu)Nb(NDipp)		Gas-phase
3	Cp ₂ NbCl(NDipp)	3	Gas-phase
3_RadicalCation	[Cp ₂ NbCl(NDipp)] ^{•+}	3^{•+}	Gas-phase
4	{CpNb(NDipp)} ₂ (μ , η^2 , η^2 -N ₂)	4	Gas-phase
5	{CpNb(μ -Cl)(NDipp)} ₂	5	Gas-phase
8_Cation	[Cp ₂ Nb(NDipp)] ⁺	8⁺	Gas-phase
9	Cp ₂ Nb(ClGaCl ₃)(NDipp)	9	Gas-phase
10	Cp ₂ Nb(ClGaCl ₃)(N{Dipp·Ga ₂ Cl ₆ })	10	Gas-phase
12	Cp ₂ Nb(NDipp)(PCO)	12	Gas-phase
13_Cation	[Cp ₂ NbCl(NHDipp)] ⁺	13⁺	Gas-phase
14a_Cation	[Cp ₂ NbCl(N{Me}Dipp)] ⁺	14a⁺	Gas-phase
14b_Cation	[Cp ₂ NbCl(N{Dipp-4-Me})] ⁺	14b⁺	Gas-phase
16_Cation	[Cp ₂ NbCl(N{Dipp-4-Tr})] ⁺	16⁺	Gas-phase
18_Singlet_Dication_DCM	[{Cp ₂ NbCl} ₂ (N{2,6- ⁱ Pr ₂ C ₆ H ₂ }) ₂ N)] ²⁺ (Singlet)	18s²⁺	DCM solution (SMD)
18_Singlet_Dication_GasPhase	[{Cp ₂ NbCl} ₂ (N{2,6- ⁱ Pr ₂ C ₆ H ₂ }) ₂ N)] ²⁺ (Singlet)	18s²⁺	Gas-phase
18_Triplet_Dication_DCM	[{Cp ₂ NbCl} ₂ (N{2,6- ⁱ Pr ₂ C ₆ H ₂ }) ₂ N)] ²⁺ (Triplet)	18t²⁺	DCM solution (SMD)
18_Triplet_Dication_GasPhase	[{Cp ₂ NbCl} ₂ (N{2,6- ⁱ Pr ₂ C ₆ H ₂ }) ₂ N)] ²⁺ (Triplet)	18t²⁺	Gas-phase
19_Dication	[{Cp ₂ NbCl} ₂ (N{4,4'-Dipp ₂ })N)] ²⁺	19²⁺	Gas-phase
20	{Cp ₂ NbCl} ₂ (N{2,6- ⁱ Pr ₂ C ₆ H ₂ }) ₂ N)	20	Gas-phase
AQ	{Cp [†] ₂ Zr} ₂ (μ , η^2 , η^2 -N ₂)	AQ	Gas-phase

Cp2NbCl(N(Dipp-4-H))_Cation	[Cp ₂ NbCl(N{Dipp-4-H})] ⁺ ,		Gas-phase
Ga2Cl6	Ga ₂ Cl ₆		Gas-phase
KOHLID_GasPhase	Cp*AlI(N{2,6-Mes ₂ C ₆ H ₃ })·AlI{κ ² -N ₃ (Cp*)(2,6-Mes ₂ C ₆ H ₃)}	KOHLID	Gas-phase
MABHAB_GasPhase	(TMS)N(Mes*-4-{CH ₂ CMe ₂ [C ₆ H ₂ -3,5- <i>t</i> Bu ₂ -2-{NH(TMS)}]})	MABHAB	Gas-phase
MeOTf_Et2O	MeOTf		Et ₂ O solution (SMD)
MeOTf_GasPhase	MeOTf		Gas-phase
Tr_Cation	Tr ⁺		Gas-phase