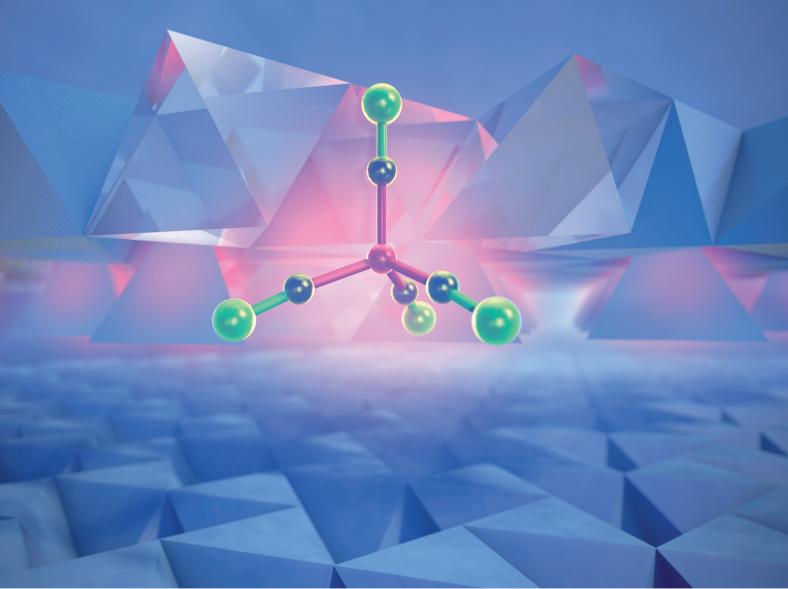
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PAPER Franziska Jach *et al.* Non-innocent cyanido ligands: tetracyanidoferrate(-11) as carbonyl copycat

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Introduction

The possibility of metal anions has fascinated chemists for over 100 years.¹ Systematic studies of transition metals with negative oxidation states started in the 1930s with metal carbonyl anions such as $[Fe^{II}(en)_3][Fe^{-II}(CO)_4]$ (en = ethylenediamine), although its ionic nature was not revealed until later.^{2–4} During the following decades, carbonyl metalates were applied as starting materials and catalysts in (metal)organic syntheses.^{5,6} Additionally, a quest for even further reduced metalates resulted in extreme examples such as $[Co(CO)_3]^{3-}$ and $[Cr(CO)_4]^{4-}$.^{1,7–10}



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While a negative oxidation state occurs rarely for metals in general, this is commonly known for metal carbonyl anions, *i.e.* carbonyl metalates. Although CO and CN⁻ are isoelectronic, cyanidometalates usually do not exhibit metal centers with negative oxidation states. However, we report on the electron-rich tetrahedral tetracyanidoferrate(–II) anion [Fe(CN)₄]⁶⁻, which was stabilized in (Sr₃N)₂[Fe(CN)₄] (space group *R3c*, *a* = 702.12(2) pm, *c* = 4155.5(2) pm). Microcrystalline powders were synthesized by a solid-state route, single crystals were obtained from Na metal flux. In comparison to classical cyanidometalates, C–N distances are longer and stretching frequencies are lower as indicated by X-ray diffraction, IR and Raman spectroscopy. Weak C–N, strong Fe–C bonds as well as the anion geometry resemble the isoelectronic tetrahedral carbonyl ferrate [Fe(CO)₄]^{2-. 57}Fe Mössbauer spectroscopic measurements reveal a negative isomer shift in agreement with substantially delocalized d electrons due to strong π backbonding. These results point to a very similar bonding situation of both 18e tetracyanido and tetracarbonyl ferrates including non-innocent redox-active ligands and a d¹⁰ closed shell configuration on iron. Hereby, new tetracyanidoferrate(–II) provides a missing link for a more in-depth understanding of the chemical bonding trends of highly-reduced cyanidometalates in the quest for even higher reduced transition metals in this exceptional class of compounds.

Although the cyanide anion is isoelectronic to carbon monoxide, respective cyanidometalates typically differ significantly from carbonyl metalates with regard to chemical bonding, properties and applications. The σ -donor function of the typically redox-inactive CN ligand allows for stabilization of relatively high oxidation states of the transition metal. In contrast, negative oxidation states for carbonyl metalates are achieved by strong π back-bonding shifting electron density towards the non-innocent, redox-active CO ligands.¹¹ These differences are best investigated by IR and Raman spectroscopy: stretching frequencies of the CN ligand ν (CN) are similar for complexes and simple salts (typically 2000–2200 cm⁻¹).^{12,13} For carbonyl metalates, ν (CO) frequencies are much lower in comparison to gaseous CO (2143 cm⁻¹),¹⁴ e.g. 1614 cm⁻¹ for [Co(CO)₃]^{3-8,9}

However, exotic examples of highly reduced cyanido complexes have been reported, *e.g.* $[Co(CN)_3]^{6-}$ and $[Fe(CN)_3]^{7-.15,16}$ These metalates mimic the bonding situation of carbonyl metalates including unusual non-innocent CN ligands exhibiting very low $\nu(CN)$, such as 1641–1696 cm⁻¹ for Ba₃[Co(CN)₃].¹⁵ Quantum chemical calculations revealed a closed shell d¹⁰ configuration for the Co and Fe centers and strong π back-bonding yielding intermediate-valent CN^{1.67–} ligands due to occupied CN pp π^* antibonding orbitals.^{15,16}

Taking into account the striking similarities between isoelectronic $[Co(CO)_3]^{3-}$ and $[Co(CN)_3]^{6-}$, it can be anticipated,



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that further highly reduced cyanido copycats of metal carbonyl anions exist. In this work, we present the tetracyanidoferrate($-\pi$) anion stabilized in $(Sr_3N)_2[Fe(CN)_4]$ which is isoelectronic to Hieber's famous prototype $[Fe(CO)_4]^{2-}$.

Results and discussion

Synthesis and thermal stability

Air and moisture sensitive, nearly single-phase micro-crystalline powders of $(Sr_3N)_2[Fe(CN)_4]$ were synthesized using pelletized mixtures of Sr_2N , iron powder, graphite, and NaN_3 in the molar ratio of Sr:Fe:C:N = 6:1:4:6 at 1070 K in Ar atmosphere. The synthesis is very sensitive to the nitrogen partial pressure: higher nitrogen contents yield thermodynamically more stable carbodiimides such as $SrCN_2$.¹⁷ Despite reasonable efforts, small contaminations of elemental iron and $Sr_4N[C_2N][CN_2]^{18}$ could not be avoided (see ESI†). Transparent yellow hexagonal plate-like crystals were grown from a slowly cooled solution of starting materials in Na flux.

The compound rearranges to $Sr_{3.5}[Fe(CN)_3]^{16}$ upon annealing at 970 K, while the latter structure is stable up to *ca.* 1200 K in Ar, as indicated by thermal analysis (see Fig. S1, ESI†). This reveals the high thermal stability of highly reduced cyanidometalates.

Crystal structure

The trigonal crystal structure of $(Sr_3N)_2[Fe(CN)_4]$ (space group *R3c*, no. 161, *a* = 702.12(2) pm, *c* = 4155.5(2) pm, 300 K) contains layers of edge-sharing (NSr_{6/2})-octahedra forming a honeycomb motif in the *ab* plane (Fig. 1). Slightly distorted tetrahedral cyanidoferrate anions $[Fe(CN)_4]^{6-}$ are positioned in between these layers with one CN-ligand rising into the honeycomb void.

The uniform orientation of the $[Fe(CN)_4]^{6-}$ tetrahedra grounds the polarity of the structure. The double layers of $(NSr_{6/2})$ -octahedra and $[Fe(CN)_4]^{6-}$ tetrahedra are stacked along *c* with shifted honeycomb voids and tetrahedra from one layer to the next. The stacking sequence ABCA'B'C' thereby yields the large cell parameter *c*. The nearest neighbors of the cyanidoferrate themselves form a cage of 15 Sr²⁺ cations (Fig. 1c). The differing environment for the CN ligands results in small deviations from tetrahedral symmetry for $[Fe(CN)_4]^{6-}$ with respect to C–N distances and bond angles (Fig. 1d). In addition to this description, stacking faults are revealed by diffuse scattering along *c** and additional peaks in the difference Fourier map. For details see Fig. S2–S5 (ESI†).

Nitridometalates such as $(Ca_3N)_2[FeN_3]$ exhibit a related crystal structure in space group $P6_3/mcm$.¹⁹ In contrast to the title compound, trigonal planar $[FeN_3]^{6-}$ anions are located in between honeycomb layers of $(NCa_{6/2})$ octahedra forming a much simpler stacking sequence.

IR and Raman spectroscopy

IR and Raman spectra of $(Sr_3N)_2[Fe(CN)_4]$ exhibit three distinct regions of sharp bands (Fig. 2): the $\nu(CN)$ valence band region,

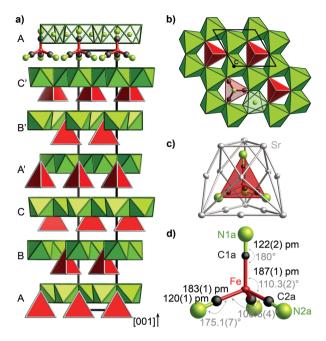


Fig. 1 Crystal structure of $(Sr_3N)_2[Fe(CN)_4]$ (a) layers of $(NSr_{6/2})$ octahedra (green) and $[Fe(CN)_4]^{6-}$ tetrahedra (red) exhibit an ABCA'B'C' stacking sequence in [001] direction. (b) Honeycomb motif of $(NSr_{6/2})$ octahedra (green) in the *ab* plane. $[Fe(CN)_4]^{6-}$ tetrahedra (red) rise into the honeycomb void. (c) Cage of 15 Sr²⁺ cations surrounding the $[Fe(CN)_4]^{6-}$ tetrahedra. (d) Tetrahedral anion $[Fe(CN)_4]^{6-}$ with bond lengths (black) and angles (gray). Ellipsoids in c and d are set at 99% probability. For simplicity reasons, the ideal structure without stacking faults is shown in this figure.

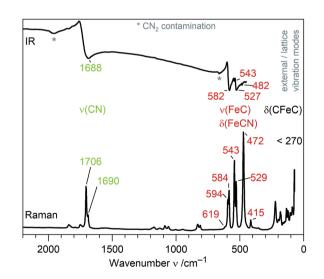


Fig. 2 IR and Raman spectra of $(Sr_3N)_2[Fe(CN)_4]$ with assigned molecular vibrations of $[Fe(CN)_4]^{6-}$.

a region of ν (FeC) and δ (FeCN) deformation modes and socalled lattice modes below 300 cm⁻¹. A tetrahedral molecule of point group T_d containing nine atoms exhibits 21 vibrations: $2A_1 + 2E + F_1 + 4F_2$.^{20,21} In accordance to this point group and the isoelectronic tetrahedral molecular anion [Fe(CO)₄]^{2-,20,22} two Raman and one IR mode are observed for ν (CN) at similar frequencies for both anions (see Table 1). In contrast, ν (FeC) and δ (FeCN) modes are split as a result of the symmetry reduction for [Fe(CN)₄]⁶⁻ in the solid state structure (site symmetry C_3). An unambiguous assignment of ν (FeC) and δ (FeCN) modes within that region is not possible without further investigations. For molecular site group analysis, see ESI.†

Comparison of $[Fe(CN)_4]^{6-}$ and related metalates

To the best of our knowledge, $[Fe(CN)_4]^{6-}$ is the first homoleptic 18*e* cyanidoferrate with four ligands. The only other four-coordinated cyanidoferrate is 14*e* square-planar $[Fe(CN)_4]^{2-}$.²³ On the other hand, 18*e* tetraisocyanidometalates were reported, such as $[Fe(CNXyl)_4]^{2-}$ (Xyl = 2,6-dimethylphenyl).²⁴

In contrast to simple cyanide salts and classical cyanidometalates such as $[Fe(CN)_4]^{2-}$ or $[Fe(CN)_6]^{3-},\!\!\!^{23,25}$ C–N bond lengths in $[Fe(CN)_4]^{6-}$ are unusually long and $\nu(CN)$ valence frequencies are unusually low pointing towards severely weakened C-N bonds (Table 1). This is accompanied by much stronger Fe–C bonds than in [Fe(CN)₆]^{3–} evidenced by shorter distances and higher ν (FeC)/ δ (FeCN) frequencies. These observations are in good accordance with the textbook description of π back-bonding: electrons are shifted from metal d orbitals to antibonding π^* orbitals of the CN ligand, which strengthens the Fe-C bond and weakens the C-N bond. High values of δ (FeCN) vibrations likewise point to a stiffer Fe–C–N unit due to increased π bonding.²⁶ Similar trends have been discussed for the complexes $[Fe(CN)_6]^{3-}$ and $[Fe(CN)_6]^{4-}$, with the higher charged metalate exhibiting more pronounced π backbonding.^{11,12} However, changes for hexacyanidoferrates are small in comparison to the tetracyanidoferrates $[Fe(CN)_4]^{2-1}$ and $[Fe(CN)_4]^{6-}$ (Table 1). Instead of classical cyanidoferrates, chemical bonding in $[Fe(CN)_4]^{6-}$ resembles the situation in isoelectronic and likewise tetrahedral $[Fe(CO)_4]^{2-}$ evidenced by similar values for bond lengths and stretching frequencies.

With regard to the previously reported highly reduced cyanidometalates, a qualitatively similar bonding situation can be assumed for all 18*e* complexes $[Co(CN)_3]^{6-}$, $[Fe(CN)_3]^{7-}$, and $[Fe(CN)_4]^{6-}$ based on interatomic distances and vibrational frequencies. Quantitatively, C–N bonds are stronger (shorter d(C-N), higher $\nu(CN)$) and Fe–C bonds are weaker for $[Fe(CN)_4]^{6-}$ in comparison to $[Fe(CN)_3]^{7-}$ pointing to somewhat less π back-bonding for the tetracyanidoferrate. This is reasonable since the lesser charge of $[Fe(CN)_4]^{6-}$ is distributed over more ligands which is equivalent to less π back-bonding in contrast to $[Fe(CN)_3]^{7-}$. A similar trend is observed for the pair $[Co(CO)_3]^{3-}$ and $[Co(CO)_4]^-$ (Table 1).

The isoelectronic $[Fe(CNXyl)_4]^{2-}$ exhibits somewhat longer C–N distances and lower $\nu(CN)$ frequencies than $[Fe(CN)_4]^{6-}$ due to the bridging CN groups instead of terminal cyanido ligands.

Physical properties

 $(Sr_3N)_2[Fe(CN)_4]$ exhibits electrically insulating behavior consistent with mainly ionic interactions between Sr^{2+} , N^{3-} , and complex anions $[Fe(CN)_4]^{6-}$. This accords well with reported

Table 1	Synopsis of cyanid	Table 1 Synopsis of cyanide and carbonyl compounds (<i>M</i> = transition metal) with respect to their bond lengths <i>d</i> (pm), as well as stretching and deformation frequencies ^a ν , δ (cm ⁻¹)	ion metal) with respec	ct to their bond ler	ngths <i>d</i> (pm), as well a:	s stretching and de	formation frequencies ^a $ u$, δ (cr	n ⁻¹)
Ligand	Anion	Compound	Geometry	d(C-N)	ν(CN)/ν(CO)	d(M-C)	√(MC) & δ(MCN)/δ(MCO)	Ref.
CN	$ \begin{array}{l} \left[Fe(CN)_{4} \right]^{6-} \\ \left[Fe(CN)_{3} \right]^{7-} \\ \left[Co(CN)_{3} \right]^{6-} \\ \left[Fe(CN)_{4} \right]^{2-} \\ \left[Fe(CN)_{6} \right]^{3-} \\ \left[Fe(CN)_{6} \right]^{3-} \\ \left[Fe(CN)_{6} \right]^{3-} \\ \left[Fe(CN)_{6} \right]^{4-} \\ \left[Fe(CNXyI)_{4} \right]^{2-} \end{array} $	$\begin{array}{l} (\mathrm{Sr}_3\mathrm{N})_2[\mathrm{Fe}(\mathrm{CN})_4]\\ \mathrm{LiSr}_3[\mathrm{Fe}(\mathrm{CN})_3]\\ \mathrm{Ba}_3[\mathrm{Co}(\mathrm{CN})_3]\\ \mathrm{Ini}(\mathrm{dien})_2][\mathrm{Fe}(\mathrm{CN})_4]^b\\ \mathrm{Rb}_2\mathrm{Na}[\mathrm{Fe}(\mathrm{CN})_6]\\ \mathrm{Ba}(\mathrm{NH}_4)_2[\mathrm{Fe}(\mathrm{CN})_6]\\ \mathrm{Ba}(\mathrm{NH}_4)_2[\mathrm{re}(\mathrm{CN})_6]\\ \mathrm{Na}\mathrm{CN}\\ \mathrm{Na}\mathrm{CN}\end{array}$	Tetrahedral Trigonal-planar Trigonal-planar Square-planar Octahedral Octahedral Tetrahedral	$\begin{array}{c} 120(1), \ 122(2)\\ 126.7(3)\\ 123.5(5)\\ 114-116\\ 114, \ 115\\ 115\\ 115\\ 115\\ 116\\ 116\end{array}$	1688; 1690, 1706 1490; 1581 1641; 1696 2077, 2117 2122 2041; 2060, 2095 1675 2088	$183(1), 187(1) \\ 178.6(4) \\ 176.9(3) \\ 185-186 \\ 194 \\ 191 \\ 176-177 \\$	482–582; 415–619 557–664; 464–611 542, 569; 420–582 394, 523 <585	This work 16 15 and 27 23 28 24 24 29
CO	$[Fe(CO)_4]^{2-}$ $[Co(CO)_4]^{-}$ $[Co(CO)_3]^{3-}$ CO	$\begin{array}{l} A_2[\operatorname{Fe}(\operatorname{CO})_4] \left(A=K,\operatorname{Na}\right) \\ A[\operatorname{Co}(\operatorname{CO})_4] \left(A=\operatorname{QuinH},\operatorname{Na}\right)^d \\ \operatorname{Na}_3[\operatorname{Co}(\operatorname{CO})_3] \\ \operatorname{CO}(\operatorname{gas}) \end{array}$	Tetrahedral Tetrahedral Trigonal-planar	118 115 126^{e} 113	1729–1786; 1788 1886; 1883, 1918 1614 2143	175 176-178 177^{e}	555, 646; 464–785 530, 555; 439–715	22, 30–32 22, 30 and 33 8 and 9 14 and 29
^a Italic: I	R data: regular: Ran	<i>a Italic:</i> IR data: revular: Raman data. ^b dien ≣ diethylenetriamine. ^c Xvl ≡ 2.6-dimethylphenyl. ^d OuinH ≣ auinuclidinium. ^e Calculated values.	^c Xvl = 2.6-dimethvlph	tenvl. ^{d} OuinH = a_1	uinuclidinium. ^e Calcı	lated values.		

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properties of similar reduced cyanidometalates such as $Sr_3[Co(CN)_3]$ and $Ba_{3.5}[Fe(CN)_3]$.^{15,16} Unfortunately, the conclusive examination of magnetic susceptibility data of $(Sr_3N)_2[Fe(CN)_4]$ was hindered by too large contaminations of elemental Fe from synthesis.

⁵⁷Fe Mössbauer spectroscopy

To get a closer look into the valence state of the iron atoms in $(Sr_3N)_2$ [Fe(CN)₄], ⁵⁷Fe Mössbauer spectroscopic measurements were conducted at 293 and 78 K (Fig. 3). Both spectra could be well reproduced with a superposition of two sub-signals in a ratio of 63(1):37(1) at 293 (top) and 59(1):41(1) at 78 K (bottom), respectively. Both spectra show similar fitting parameters (Table 2) for the particular simulated sub-spectra,

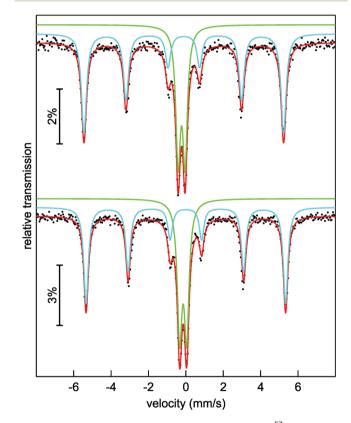


Fig. 3 Experimental (black dots) and simulated (lines) ^{57}Fe Mössbauer spectra of (Sr_3N)_2[Fe(CN)_4] at 293 K (top) and 78 K (bottom).

Table 2 Fitting parameters of ⁵⁷Fe Mössbauer spectroscopic measurements of $(Sr_3N)_2[Fe(CN)_4]$ at 293 and 78 K; δ = isomer shift, ΔE_Q = electric quadrupole splitting, Γ = experimental line width, $B_{\rm Hf}$ = hyperfine field splitting

T/\mathbf{K}	$\delta (\mathrm{mm~s^{-1}})$	$\Delta E_{\rm Q} \left(\rm mm \; s^{-1} \right)$	$\Gamma \left(mm \; s^{-1} \right)$	$B_{\mathrm{Hf}}\left(\mathrm{T}\right)$	Area (%)
293 78	$\begin{array}{c} -0.110(1) \\ -0.227(2) \\ 0.001(1) \\ -0.143(1) \end{array}$	0* 0.373(2) 0* 0.374(2)	0.328(5) 0.297(4) 0.298(4) 0.307(3)	33.12(1) 33.10(1) 	$63(1) \\ 37(1) \\ 59(1) \\ 41(1)$

* Parameter was kept fixed during fitting procedure.

hence we will focus on the 293 K data. The blue sub-signal can be ascribed to residual elemental iron from the synthesis, since the isomer shift and the hyperfine field splitting accord well with the reported data ($\delta = -0.1 \text{ mm s}^{-1}$, $B_{\text{Hf}} = 33.1 \text{ T}$ for elemental Fe);^{34,35} these iron atoms in cubic environment show no quadrupole splitting. The green sub-spectrum with an isomer shift of $\delta = -0.227(2)$ mm s⁻¹ and a quadrupole splitting parameter of $\Delta E_{\rm Q} = 0.373(2)$ mm s⁻¹ can be assigned to the iron atoms in the tetrahedral cyanidoferrate(-II) units of $(Sr_3N)_2$ [Fe(CN)₄]. In ⁵⁷Fe Mössbauer spectroscopy, a more negative isomer shift indicates a higher s-electron density at the iron nucleus. The d-electrons shield the s-electrons, which leads to a lower delocalization and a higher s-electron density at the nucleus with a decreasing number of d-electrons. As a result we observe more negative shifts for compounds with iron atoms in highly positive oxidation states like K₂Fe^{+VI}O₄ with an isomer shift of $\delta = -1.013$ mm s⁻¹ (the original value in the literature is $\delta = -1.262$ mm s⁻¹ referred to a ⁵⁷Co/Pt source).^{36,37} For iron in the formal oxidation state –II we would hence assume (just by extrapolation) a positive isomer shift at first sight. Unlike this assumption we observe a negative isomer shift for the iron atoms in the $[Fe(CN)_4]^{6-}$ unit. A similar shift is reported for the isoelectric anion $[Fe(CO)_4]^{2-}$ in $Na_2[Fe(CO)_4]$ by Erickson and Fairhall.³⁸ $Na_2[Fe(CO)_4]$ shows an isomer shift of $\delta = -0.251 \text{ mm s}^{-1}$ relative to elemental iron which corresponds to an isomer shift of $\delta = -0.351 \text{ mm s}^{-1}$ relative to a ⁵⁷Co/Rh source.^{35,36}

Erickson and Fairhall assigned the observation of the negative isomer shift to the strong π back-bonding between the carbonyl ligands and the iron d-orbitals, leading to substantial delocalization of the d-electrons which results in a reduced shielding of the s-electrons and therefore a higher s-electron density at the nucleus. This is underlined by the observed long C–N distances within the $[Fe(CN)_4]^{6-}$ anion and the low valence vibration frequencies $\nu(CN)$. The bonding situation in $(Sr_3N)_2[Fe(CN)_4]$ is thus very similar to $Fe(CO)_4^{2-}$ anion in $Na_2[Fe(CO)_4]^{.38}$ The less negative isomer shift for $[Fe(CN)_4]^{6-}$ in comparison to the $[Fe(CO)_4]^{2-}$ anion can be ascribed to the ligands. The carbonyl ligand is a stronger π -acceptor than cyanide which leads to a weaker π back-bonding and a weaker delocalization of the d-electrons in $[Fe(CN)_4]^{6-}$.

The slightly distorted coordination tetrahedron of $[Fe(CN)_4]^{6^-}$ leads to weak quadrupole splitting (Table 2). The small increase of the isomer shifts at 78 K of around 0.1 mm s⁻¹ is caused by the second order Doppler shift which describes a temperature dependent contribution to the total isomer shift and which depends on the mean square of velocity of the nucleus.^{35,36} The experimental line widths Γ (Table 2) are in the usual range for ⁵⁷Fe Mössbauer signals.

Conclusions

Tetracyanidoferrate(–II) extends the growing class of highly reduced cyanidometalates to tetrahedral complexes. Judging from bond lengths, vibrational frequencies, as well as Mössbauer spectroscopic measurements, chemical bonding in the isolated $[Fe(CN)_4]^{6-}$ anion corroborates well to the isoelectronic tetrahedral $[Fe(CO)_4]^{2-}$. Thus, a chemical bonding scheme consisting of strong π back-bonding between noninnocent ligands and a d¹⁰ metal center can be assumed for $[Fe(CN)_4]^{6-}$ too, as previously confirmed for the famous carbonyl metalate prototype.^{9,39,40} The tetrahedral anion geometry of $[Fe(CN)_4]^{6-}$ corroborates well with that picture: considering cyanide as a pseudohalide, the title complex resembles other tetrahedral d¹⁰ halide complexes such as $[ZnCl_4]^{2-}$ and $[AlCl_4]^$ anions.^{41,42} Although the qualitative bonding scheme seems similar to previously known reduced cyanidometalates, it differs on a quantitative level of π back-bonding strength as observed by differences of interatomic distances and vibrational frequencies, *e.g.* in comparison to the $[Fe(CN)_3]^{7-}$ anion.¹⁶

Crystal structures of highly reduced cyanidometalates resemble those known from ternary nitridometalates: the structure of $(Sr_3N)_2[Fe(CN)_4]$ shows similarities to $(Ca_3N)_2[FeN_3]$,¹⁹ while LiSr₃[Fe(CN)₃] and Ba₃[Co(CN)₃] are closely related to Ba₃[FeN₃].⁴³

Thus, the new tetracyanidoferrate(-n) provides a missing link for a more in-depth understanding of the trends regarding crystal chemistry and chemical bonding of electron-rich cyanidometalates. Bearing these concepts in mind will enable the future extension of highly charged cyanidometalates beyond group 8 and 9 – following the quest for even higher charged metalates. In view of the numerous applications of carbonyl metalates, similar usages can be anticipated for reduced cyanidometalates.

Author contributions

F.J., P.H., and M.R. planned and carried out the material synthesis. F.J., P.H., Yu.P., and M.R. planned and carried out the single-crystal X-ray diffraction measurements and analyzed the data. Yu.P. collected synchrotron powder diffraction data, while F.J. analyzed these. F.J. recorded and analyzed IR and Raman spectra. Th.B. and R.P. recorded and analyzed Mössbauer spectra. M.S. performed thermal analyses. M.B. performed physical property measurements. All authors contributed in writing the manuscript. M.R., P.H., and R.P. supervised the project.

Conflicts of interest

There are no conflicts to declare.

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