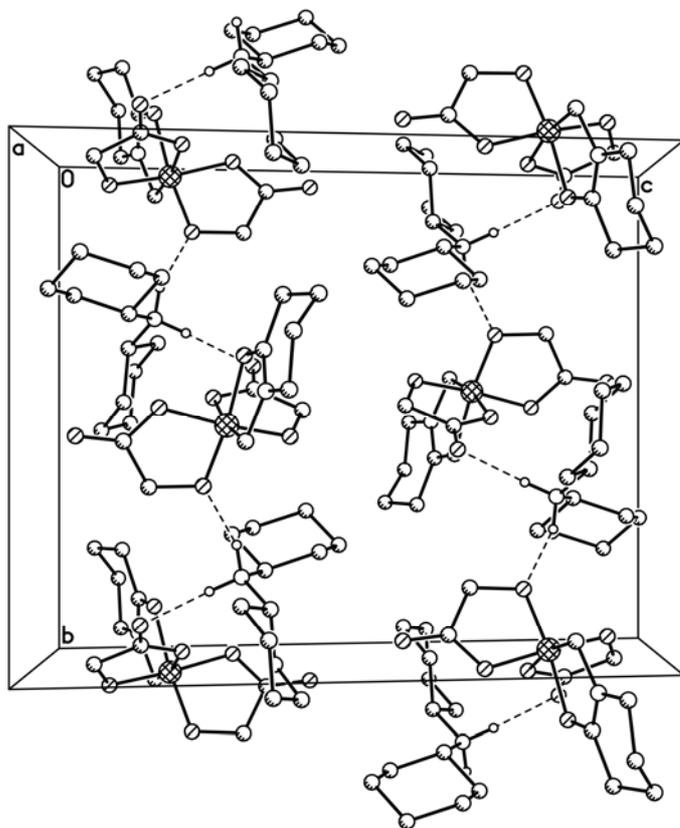


## Synthesis and structural characterization of the anionic chelates of hypercoordinate silicon, the derivatives of glycolic and tartaric acids

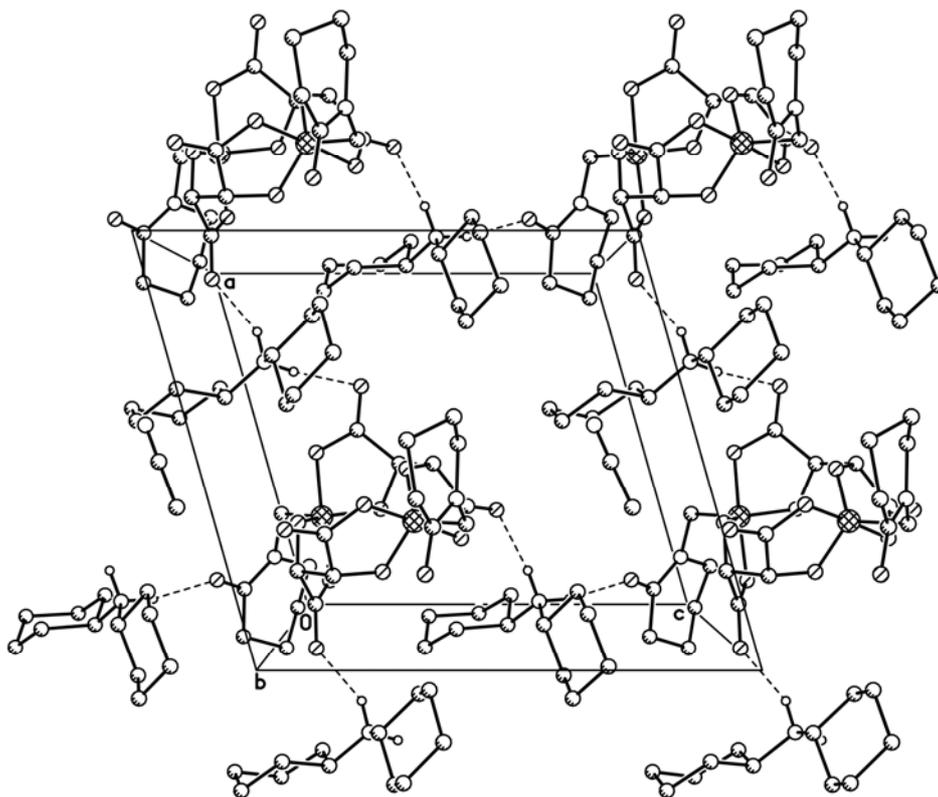
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*Crystal packing of compounds 2 and 3.*

Bis(glycolato-*O,O'*)[(2-oxopiperidin-1-yl)methyl-*C,O*]silicate anions and dicyclohexylammonium cations are assembled into chains along the *b* axis of the unit cell (Figure 1S). In the crystal structure of salt **3**, dicyclohexylammonium cations and  $\lambda^5\text{Si},\lambda^5\text{Si}'$ -disilicate anions form layers perpendicular to *b* axis (Figure 2S). The structural parameters of hydrogen bonds are shown in Tables 1S and 2S.



**Figure 1S** The chains in the crystal packing of salt **2**.



**Figure 2S** The chains in the crystal packing of salt **3**.

**Table 1S**

$D-H\cdots A$	$D-H$ (Å)	$H\cdots A$ (Å)	$D\cdots A$ (Å)	$D-H\cdots A$ (°)
N1A—H1AB...O2	0.92	1.88	2.7649 (18)	161
N1A—H1AC...O5 <sup>#1</sup>	0.92	2.55	3.1996 (17)	128

Symmetry code(s): (#1)  $-x+1, y+1/2, -z+1/2$ .

**Table 2S**

$D-H\cdots A$	$D-H$ (Å)	$H\cdots A$ (Å)	$D\cdots A$ (Å)	$D-H\cdots A$ (°)
N2—H2B...O1'	0.92	2.54	3.207 (2)	130
N2—H2B...O2'	0.92	2.07	2.988 (2)	174
N2—H2C...O2 <sup>#1</sup>	0.92	1.92	2.746 (2)	148
N2'—H2'B...O7 <sup>#2</sup>	0.92	1.86	2.759 (2)	164
N2'—H2'C...O6'	0.92	1.91	2.818 (2)	169

Symmetry code(s): (#1)  $x+1, y, z$ ; (#2)  $x, y, z+1$ .