

**Phase classification**

<b>Formula</b>	LiSCIN
<b>I/Ic</b>	3.210000

## Refined crystal structure

**Crystallographic data**

<b>Space group</b>	F m -3 m (225)
<b>Crystal system</b>	cubic
<b>Cell parameters</b>	a= 5.4144 Å

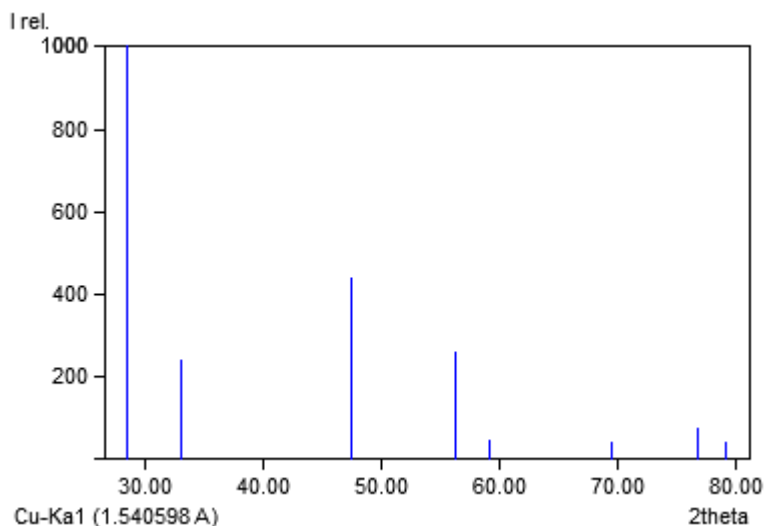
<b>Atom coordinates</b>	<b>Element</b>	<b>Oxid.</b>	<b>x</b>	<b>y</b>	<b>z</b>	<b>Bi</b>	<b>Focc</b>
	Li		0.250	0.250	0.250	7.371166	1.000000
	Li		0.500	0.500	0.500	12.441203	0.150000
	S		0.000	0.000	0.000	0.955694	0.275000
	N		0.000	0.000	0.000	0.955694	0.450000
	Cl		0.000	0.000	0.000	0.955694	0.275000

## Refined diffraction data

**Diffraction lines**

<b>d [Å]</b>	<b>Int.</b>	<b>h</b>	<b>k</b>	<b>l</b>	<b>Mult.</b>
3.1260	1000.0	1	1	1	8
3.1260	497.3	1	1	1	8
2.7072	238.6	2	0	0	6
2.7072	118.6	2	0	0	6
1.9143	438.7	2	2	0	12
1.9143	218.1	2	2	0	12
1.6325	260.4	3	1	1	24
1.6325	129.4	3	1	1	24
1.5630	44.3	2	2	2	8
1.5630	22.1	2	2	2	8
1.3536	41.1	4	0	0	6
1.3536	20.4	4	0	0	6
1.2421	75.1	3	3	1	24
1.2421	37.2	3	3	1	24
1.2107	43.7	4	2	0	24
1.2107	20.4	4	2	0	24

## Diffraction pattern graphics



## Rietveld refinement using FullProf

**Refinement results**

<b>Automatic refinement</b>	No
<b>Final weighted average Bragg R-factor</b>	3.8
<b>Final reduced <math>\chi^2</math></b>	3.2
<b>FullProf comment</b>	Your refinement seems to be rather good! => Your refinement seems to be rather good!

**Refined parameters**

<b>Parameter</b>	<b>Final value</b>
Biso_S3_ph1	0.955694
Biso_N4_ph1	0.955694
Biso_Cl5_ph1	0.955694

**Fixed parameters**

<b>Parameter</b>	<b>Final value</b>
Zero_pat1	-0.536391

SyCos_pat1	-0.574282
SySin_pat1	0
Lambda_pat1	1.54187
P0_mabs_pat1	0
Cp_mabs_pat1	0
Tau_mabs_pat1	0.1
Bck_0_pat1	1.00176
Bck_1_pat1	0
Bck_2_pat1	0
Bck_3_pat1	0
Scale_ph1_pat1	0.0206948
Bover_ph1_pat1	1.10748
Strain1_ph1_pat1	0
Strain2_ph1_pat1	0
Strain3_ph1_pat1	0
G-Size_ph1_pat1	0
L-Size_ph1_pat1	0
Y-cos_ph1_pat1	0
EtaRght0_ph1_pat1	0
X-tan_ph1_pat1	0
U-Cagl_ph1_pat1	2.11998
V-Cagl_ph1_pat1	0
W-Cagl_ph1_pat1	0.362308
EtaPV_ph1_pat1	0.719447
Cell_A_ph1_pat1	5.41435
Cell_B_ph1_pat1	5.41435
Cell_C_ph1_pat1	5.41435
Cell_D_ph1_pat1	90
Cell_E_ph1_pat1	90
Cell_F_ph1_pat1	90
Or1_ph1_pat1	0
Or2_ph1_pat1	0
Asym1_ph1_pat1	0
Asym2_ph1_pat1	0
Asym3_ph1_pat1	0
Asym4_ph1_pat1	0
X_Li1_ph1	0.25
Y_Li1_ph1	0.25
Z_Li1_ph1	0.25
Biso_Li1_ph1	7.37117
Occ_Li1_ph1	1
X_Li2_ph1	0.5
Y_Li2_ph1	0.5
Z_Li2_ph1	0.5
Biso_Li2_ph1	12.4412
Occ_Li2_ph1	0.15
X_S3_ph1	0
Y_S3_ph1	0
Z_S3_ph1	0
Occ_S3_ph1	0.275
X_N4_ph1	0
Y_N4_ph1	0
Z_N4_ph1	0
Occ_N4_ph1	0.45
X_CI5_ph1	0
Y_CI5_ph1	0
Z_CI5_ph1	0
Occ_CI5_ph1	0.275