

Heatmap visualization showing the correlation matrix of 40 different chemical compositions. The x and y axes are labeled with the same 40 compositions. The diagonal is dark blue, indicating a correlation of 1.0. The upper triangle is light blue, indicating a correlation of 0.0. The lower triangle is dark blue, indicating a correlation of 1.0. The color scale ranges from 0.0 (light blue) to 1.0 (dark blue).

Chemical compositions (X-axis labels from left to right):

- NaCl_G100_R2
- NaCl_G300_R3
- NaCl_G400_R4
- NaCl_G200_R1
- NaCl_G200_R2
- NaCl_G700_R1
- NaCl_G1000_R3
- NaCl_G700_R4
- LiAc0.01_G700_R1
- NaCl_G700_R3
- LiAc0.01_G200_R1
- LiAc0.01_G300_R1
- LiAc0.01_G400_R1
- LiAc0.01_G500_R1
- NaCl_G500_R4
- LiAc0.01_G100_R2
- LiAc0.01_G300_R2
- LiAc0.01_G400_R2
- LiAc0.01_G700_R2
- LiAc0.01_G100_R1
- LiAc0.01_G200_R2
- LiAc0.01_G500_R2
- NaCl_G1000_R2
- NaCl_G700_R2
- NaCl_G500_R2
- NaCl_G300_R2
- NaCl_G400_R2
- LiAc0.01_G200_R5
- LiAc0.01_G100_R5
- LiAc0.01_G700_R5
- LiAc0.01_G300_R5
- LiAc0.01_G400_R5
- NaCl_G300_R4
- NaCl_G400_R3
- NaCl_G500_R3
- NaCl_G100_R4
- NaCl_G500_R1
- NaCl_G300_R1
- NaCl_G400_R1
- NaCl_G200_R3
- NaCl_G100_R3
- NaCl_G100_R1
- NaCl_G200_R4
- LiAc0.01_G700_R4
- LiAc0.01_G400_R4
- LiAc0.01_G100_R4
- LiAc0.01_G300_R4
- LiAc0.01_G200_R4
- LiAc0.01_G500_R4

Chemical compositions (Y-axis labels from top to bottom):

- NaCl_G100_R2
- NaCl_G300_R3
- NaCl_G400_R4
- NaCl_G200_R1
- NaCl_G200_R2
- NaCl_G700_R1
- NaCl_G1000_R3
- NaCl_G700_R4
- LiAc0.01_G700_R1
- NaCl_G700_R3
- LiAc0.01_G200_R1
- LiAc0.01_G300_R1
- LiAc0.01_G400_R1
- LiAc0.01_G500_R1
- NaCl_G500_R4
- LiAc0.01_G100_R2
- LiAc0.01_G300_R2
- LiAc0.01_G400_R2
- LiAc0.01_G700_R2
- LiAc0.01_G100_R1
- LiAc0.01_G200_R2
- LiAc0.01_G500_R2
- NaCl_G1000_R2
- NaCl_G700_R2
- NaCl_G500_R2
- NaCl_G300_R2
- NaCl_G400_R2
- LiAc0.01_G200_R5
- LiAc0.01_G100_R5
- LiAc0.01_G700_R5
- LiAc0.01_G300_R5
- LiAc0.01_G400_R5
- NaCl_G300_R4
- NaCl_G400_R3
- NaCl_G500_R3
- NaCl_G100_R4
- NaCl_G500_R1
- NaCl_G300_R1
- NaCl_G400_R1
- NaCl_G200_R3
- NaCl_G100_R3
- NaCl_G100_R1
- NaCl_G200_R4
- LiAc0.01_G700_R4
- LiAc0.01_G400_R4
- LiAc0.01_G100_R4
- LiAc0.01_G300_R4
- LiAc0.01_G200_R4
- LiAc0.01_G500_R4

$$\begin{pmatrix} 1 \\ 0 \\ 0 \\ 0 \\ 0 \end{pmatrix}$$