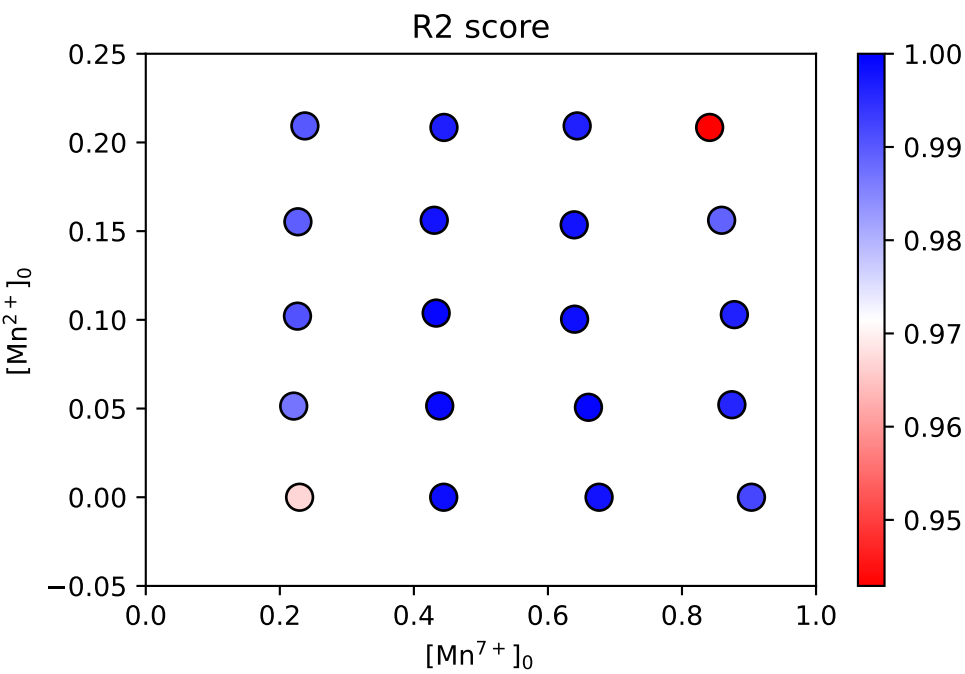


path: example/sparse  
filename: 0013

chem formula:  
['Mn+7', 'Mn+3', 'Mn+2', 'C2O4-2',  
'CO2', 'Mn+6', 'Mn+4', 'C2O4-1']

k\_max = 1.00e+04  
k\_cut = 1.00e-02  
lam = 1.28e-04  
num\_eq = 11  
loss = 4.91e-03

MRSE train = 1.54e-03  
MESE test = 1.39e-02



( 1)	Mn+7 + Mn+2	-> Mn+3 + Mn+6	k = 48.67
( 2)	Mn+7 + C2O4-2	-> Mn+6 + C2O4-1	k = 0.03
( 3)	Mn+3 + C2O4-2	-> Mn+2 + C2O4-1	k = 10.85
( 4)	Mn+2 + Mn+6	-> 2 Mn+4	k = 9996.27
( 5)	Mn+2 + Mn+4	-> 2 Mn+3	k = 9999.74
( 6)	Mn+2 + C2O4-1	-> Mn+3 + C2O4-2	k = 54.30
( 7)	C2O4-2 + Mn+4	-> Mn+3 + C2O4-1	k = 35.66
( 8)	Mn+7 + C2O4-1	-> 2 CO2 + Mn+6	k = 1049.52
( 9)	Mn+3 + C2O4-1	-> Mn+2 + 2 CO2	k = 385.73
(10)	C2O4-2 + Mn+6	-> 2 CO2 + Mn+4	k = 478.75
(11)	Mn+4 + C2O4-1	-> Mn+3 + 2 CO2	k = 9731.23

