path: result/sparse_02_split

filename: 0010

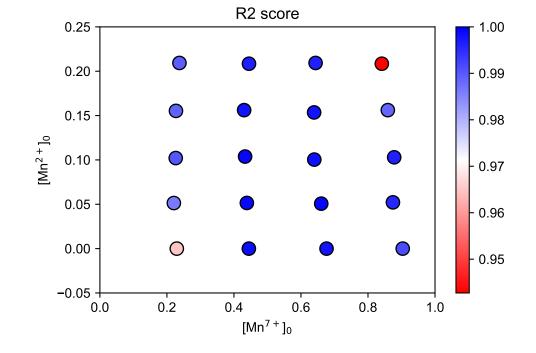
chem formula:

['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 = 6.40e-05 num_eq = 11 loss = 3.22e-03

MRSE train = 1.54e-03 MESE test = 1.43e-02

(1) Mn+7 + Mn+2



```
(2) Mn+7 + C204-2
                     -> Mn+6 + C204-1
                                        k = 0.03
(3) Mn+3 + C204-2
                     -> Mn+2 + C204-1
                                        k = 10.94
(4) Mn+2 + Mn+6
                     -> 2 Mn+4
                                        k = 9991.41
(5) Mn+2 + Mn+4
                     -> 2 Mn+3
                                        k = 9999.38
(6) Mn+2 + C204-1
                     -> Mn+3 + C204-2
                                        k = 50.25
(7) C204-2 + Mn+4
                     -> Mn+3 + C204-1
                                        k = 36.04
(8) Mn+7 + C204-1
                     -> 2 CO2 + Mn+6
                                        k = 938.09
(9) Mn+3 + C204-1
                     -> Mn+2 + 2 CO2
                                        k = 351.10
                     -> 2 CO2 + Mn+4
(10) C204-2 + Mn+6
                                        k = 444.72
(11) Mn+4 + C204-1
                     -> Mn+3 + 2 C02
                                        k = 8869.00
```

-> Mn+3 + Mn+6

k = 49.34

