

Chromium(III)potassium sulfate (12 hydrate)  
(クロムカリミョウバン)

|                      |   |
|----------------------|---|
| Chemical Name:       | Chromium(III)potassium sulfate (12 hydrate) |
| Synonym              | Potassium chromic sulfate (12 hydrate)      |
| Molecular weight:    | 499.39                                      |
| Melting point:       | °C  |
| Boiling point:       | °C  |
| Chemical Structure   | $CrK(SO_4)_2 \cdot 12H_2O$                  |
| CAS No:              | 7788-99-0                                   |
| MITI No:             | -----                                       |
| Source of Substance: | Wako Pure Chem. Ind., Ltd.                  |
| Lot. No.:            | KWM0594                                     |
| Purity:              | extra pure reagent                          |
| Vehicle:             | H <sub>2</sub> O                            |

Mutagenicity  
in Bacterial Test: Negative  
IARC Evaluation: G 3

Judgement  
Specific Mutagenicity  
Positive  
Control

Experimental Data

| Con.<br>μg/<br>plate | Number of Revertants/plate |         |                  |       |         |        |             |       |        |       |        |       |
|----------------------|----------------------------|---------|------------------|-------|---------|--------|-------------|-------|--------|-------|--------|-------|
|                      | Base-substitution          |         |                  |       |         |        | Frame-shift |       |        |       |        |       |
|                      | TA100                      |         | TA1535           |       | WP2uvrA |        | TA98        |       | TA1537 |       | TA1538 |       |
|                      | S9-                        | S9+     | S9-              | S9+   | S9-     | S9+    | S9-         | S9+   | S9-    | S9+   | S9-    | S9+   |
| H <sub>2</sub> O     | (161)                      | (166)   | (33)             | (17)  | (29)    | (38)   | (23)        | (37)  | (11)   | (13)  | (11)   | (20)  |
|                      | 178                        | 154     | 42               | 6     | 30      | 31     | 20          | 38    | 10     | 18    | 13     | 19    |
|                      | 151                        | 210     | 40               | 11    | 31      | 44     | 21          | 62    | 18     | 16    | 21     | 23    |
| 100                  | (165)                      | (182)   | (41)             | (9)   | (31)    | (38)   | (21)        | (50)  | (14)   | (17)  | (17)   | (21)  |
|                      | 165                        | 167     | 30               | 15    | 25      | 33     | 26          | 53    | 12     | 16    | 8      | 16    |
|                      | 172                        | 155     | 38               | 11    | 32      | 40     | 35          | 48    | 18     | 25    | 13     | 18    |
| 200                  | (169)                      | (161)   | (34)             | (13)  | (29)    | (37)   | (31)        | (51)  | (15)   | (21)  | (11)   | (17)  |
|                      | 162                        | 170     | 47               | 14    | 54      | 40     | 29          | 50    | 10     | 19    | 9      | 19    |
|                      | 138                        | 152     | 35               | 11    | 24      | 42     | 19          | 51    | 15     | 19    | 4      | 14    |
| 500                  | (150)                      | (161)   | (41)             | (13)  | (39)    | (41)   | (24)        | (51)  | (13)   | (19)  | (7)    | (17)  |
|                      | 152                        | 159     | 38               | 27    | 42      | 42     | 19          | 40    | 9      | 14    | 11     | 26    |
|                      | 187                        | 175     | 28               | 18    | 30      | 48     | 21          | 50    | 16     | 19    | 13     | 17    |
| 1000                 | (170)                      | (167)   | (33)             | (23)  | (36)    | (45)   | (20)        | (45)  | (13)   | (17)  | (12)   | (22)  |
|                      | 160                        | 157     | 36               | 12    | 30      | 32     | 23          | 54    | 13     | 16    | 8      | 32    |
|                      | 152                        | 139     | 31               | 13    | 43      | 28     | 17          | 67    | 8      | 16    | 9      | 28    |
| 2000                 | (156)                      | (148)   | (34)             | (13)  | (37)    | (30)   | (20)        | (61)  | (11)   | (16)  | (9)    | (30)  |
|                      | 155                        | 150     | 35               | 16    | 56      | 31     | 28          | 69    | 18     | 22    | 21     | 18    |
|                      | 185                        | 141     | 35               | 14    | 38      | 40     | 25          | 57    | 15     | 23    | 5      | 16    |
| 5000                 | (170)                      | (146)   | (35)             | (15)  | (47)    | (36)   | (27)        | (63)  | (17)   | (23)  | (13)   | (17)  |
|                      | 178                        | 155     | 33               | 23    | 49      | 45     | 34          | 69    | 30     | 38    | 28     | 34    |
|                      | 182                        | 150     | 35               | 15    | 52      | 42     | 35          | 54    | 23     | 38    | 26     | 41    |
| 10000                | (180)                      | (153)   | (34)             | (19)  | (51)    | (44)   | (35)        | (62)  | (27)   | (38)  | (27)   | (38)  |
|                      | —                          | —       | —                | —     | —       | —      | —           | —     | —      | —     | —      | —     |
|                      | AF2                        | 2AA 0.5 | NaN <sub>3</sub> | 2AA   | AF2     | 2AA 80 | AF2         | 2AA   | 9AA    | 2AA   | 4NQO   | 2AA   |
|                      | (696)                      | (424)   | (386)            | (166) | (199)   | (1127) | (593)       | (208) | (307)  | (504) | (275)  | (308) |