

3-Methoxybutyl acetate (酢酸3-メトキシブチル)

Experimental Data-1

(B9710-1/2)

| | |
|-------------------------------|--|
| Chemical Name | : <u>3-Methoxybutyl acetate</u> |
| Synonym | : <u>3-Methoxy-1-butyl-acetate</u> <u>Acetic acid 3-methoxybutyl ester</u> <u>3-メトキシブチルアセタート</u> |
| Molecular Weight | : 146.19 |
| Melting Point | : - |
| Boiling Point | : 170-172°C [CHCD] |
| Flashing Point | : - |
| Molecular Formula | : C ₇ H ₁₄ O ₃ |
| Chemical Structure | <chem>CH3COO(CH2)2CH(OCH3)CH3</chem> |
| CAS No. | : 4435-53-4 |
| MITI No. | : (2)-739 |
| ML No. | : - |
| Specified Chemical Substances | : - |
| Source of Substance | : Tokyo Kasei Kogyo Co., Ltd. |
| Lot No. | : GB01 |
| Purity | : >99% |
| Vehicle | : Distilled H ₂ O |

Mutagenicity in Bacterial Test ; Negative

IARC Evaluation ; not yet cited

| Conc. μ g/plate | Number of Revertants/plate | | | | | | | | | |
|-----------------------|----------------------------|------------------|-----------------------------|-----------------|-----------------------------|------------------|-----------------|-----------------|-----------------|-----------------|
| | Base-substitution | | | | | | Frame-shift | | | |
| | TA100 | | TA1535 | | WP2 _{uvrA} /pKM101 | | TA98 | | TA1537 | |
| H ₂ O | S9- | S9+ | S9- | S9+ | S9- | S9+ | S9- | S9+ | S9- | S9+ |
| | | (132) | (139) | (8) | (10) | (42) | (75) | (15) | (21) | (6) |
| | 119 | 164 | 8 | 9 | 39 | 69 | 10 | 26 | 6 | 9 |
| 1 .22 | (123) | (155) | (7) | (11) | (44) | (76) | (15) | (27) | (6) | (11) |
| | 130 | 146 | 10 | 9 | 46 | 78 | 14 | 24 | 5 | 8 |
| 4 .88 | (130) | (136) | (10) | (10) | (51) | (79) | (16) | (20) | (5) | (7) |
| | 120 | 152 | 7 | 5 | 45 | 86 | 14 | 20 | 3 | 6 |
| 19 .5 | (134) | (140) | (8) | (7) | (51) | (77) | (16) | (21) | (7) | (6) |
| | 120 | 133 | 8 | 9 | 31 | 81 | 13 | 26 | 5 | 10 |
| 78 .1 | (118) | (137) | (9) | (11) | (36) | (80) | (12) | (22) | (6) | (8) |
| | 130 | 128 | 9 | 9 | 40 | 85 | 14 | 23 | 3 | 6 |
| 313 | (136) | (133) | (8) | (10) | (42) | (85) | (16) | (24) | (3) | (7) |
| | 156 | 149 | 3 | 11 | 46 | 76 | 17 | 22 | 6 | 11 |
| 1250 | (145) | (139) | (7) | (12) | (43) | (76) | (17) | (24) | (6) | (11) |
| | 120 | 122 | 9 | 10 | 43 | 78 | 15 | 20 | 5 | 9 |
| 5000 | (121) | (129) | (10) | (9) | (40) | (68) | (15) | (23) | (6) | (8) |
| Judgement | - | - | - | - | - | - | - | - | - | - |
| Specific Mutagenicity | | | | | | | | | | |
| Positive Control | AF-2 (806) | 2-AA (1567) | NaN ₃ (383) | 2-AA (356) | AF-2 (1958) | 2-AA (1080) | AF-2 (465) | 2-AA (464) | 9-AA (794) | 2-AA (250) |

Experimental Data-2

(B9710-2/2)

| Conc. μ g/plate | Number of Revertants/plate | | | | | | | | | |
|------------------------|----------------------------|-----------------------|-----------------------------|--------------------|--------------------|--------------------|--------------------|--------------------|-----------------|------------------|
| | Base-substitution | | | | | | Frame-shift | | | |
| | TA100 | | TA1535 | | WP2uvrA/pKM101 | | TA98 | | TA1537 | |
| H ₂ O | S9- | S9+ | S9- | S9+ | S9- | S9+ | S9- | S9+ | S9- | S9+ |
| | (139) | (154) | (7) | (12) | (32) | (56) | (17) | (26) | (6) | (7) |
| 313 | 137 148 (143) | 157 163 (160) | 3 5 (4) | 10 11 (11) | 26 32 (29) | 57 64 (61) | 16 22 (19) | 30 24 (27) | 5 3 (4) | 8 10 (9) |
| 625 | 136 153 (145) | 181 143 (162) | 7 8 (8) | 8 13 (11) | 39 47 (43) | 40 72 (56) | 20 26 (23) | 32 31 (32) | 7 3 (5) | 8 5 (7) |
| 1250 | 159 131 (145) | 174 171 (173) | 7 5 (6) | 14 9 (12) | 38 29 (34) | 64 57 (61) | 22 15 (19) | 36 29 (33) | 8 5 (7) | 5 9 (7) |
| 2500 | 134 144 (139) | 181 177 (179) | 6 7 (7) | 14 14 (14) | 34 29 (32) | 64 66 (65) | 29 17 (23) | 24 24 (24) | 5 5 (5) | 7 9 (8) |
| 5000 | 159 135 (147) | 148 166 (157) | 8 11 (10) | 17 11 (14) | 33 39 (36) | 51 55 (53) | 17 18 (18) | 28 23 (26) | 8 5 (7) | 9 9 (9) |
| Judgement | - | - | - | - | - | - | - | - | - | - |
| Specific Mutagenicity | | | | | | | | | | |
| Positive Control | AF-2 (655) | 2-AA (1191) | NaN ₃ (429) | 2-AA (358) | AF-2 (694) | 2-AA (842) | AF-2 (511) | 2-AA (433) | 9-AA (632) | 2-AA (200) |