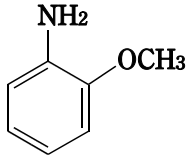
o-Methoxyaniline
【o-ﾒﾄｷｼｱﾆﾘﾝ】

Chemical Name; o-Methoxyaniline
Synonym ; 2-Methoxyaniline
2-Methoxybenzenamine
o-Anisidine
o-Aminoanisole
2-ﾒﾄｷｼｱﾆﾘﾝ
2-ﾒﾄｷｼﾍﾞﾝｾﾞﾅﾐﾝ
o-ｱﾆｼｼﾞﾝ
o-ｱﾐﾉｱﾆｿｰﾙ

Molecular Weight ; 123.15
Melting Point ; 5 ℃ [CHCD]
5 - 6 ℃ [Aldrich]
Boiling Point ; 225 ℃ [CHCD,Aldrich]
Flashing Point ; 107 ℃ [CHCD]
98 ℃ [Aldrich]
Molecular Formula; C_7H_9NO

Chemical Structure



CAS No. ; 90-04-0
MITI No. ; (3)-682
ML No. ; —
Specified Chemical Substances; —

Source of Substance; Wako Junyaku Kogyo Co.,Ltd.
Lot No. ; WDE4956
Purity ; 99.4 %

Vehicle ; DMSO

Judgement for
Chromosomal Aberration in CHL ; **Positive**

IARC Evaluation ; Group 2B

Exprimental Data without Metabolic Activation

Treatment						Cell with Structural Chromosome Aberration (%)							
Substance	Time (h)	Concent-ration (mg/ml)	No. of Metaphase	Polyploid (%)	**Judge-ment**		Chromatid		Chromosome		Total		**Judge-ment**
						Gap	CTB	CTE	CSB	CSE	−G	+G	
DMSO	24		200	0.0	−	0.5	0.0	0.0	0.0	0.0	0.0	0.5	−
	48		200	2.5	−	0.0	0.0	0.0	0.0	0.0	0.0	0.0	−
Test Chemical	24	0.13	200	0.0	−	0.0	0.0	1.5	0.0	0.0	1.5	1.5	−
		0.25	200	1.0	−	0.5	1.5	2.5	0.0	0.0	4.0	4.5	−
		0.5	200	0.5	−	0.0	6.0	5.0	0.0	0.0	10.0	10.5	+
		1.0	132	0.0	−	0.0	8.3	10.6	0.0	0.0	15.2	15.2	+
		2.0 *				No observation for metaphase							
	48	0.13	200	2.0	−	0.0	0.5	0.0	0.0	0.0	0.5	0.5	−
		0.25	200	1.0	−	0.0	0.0	1.5	0.0	0.0	1.5	1.5	−
		0.5	200	4.0	−	0.5	2.0	10.0	0.0	0.0	10.0	10.0	+
		1.0	175	0.0	−	1.1	8.0	25.1	0.0	0.0	30.3	30.3	+
		2.0 *				No observation for metaphase							
Positive Control [MMC]	24	0.00004	200	0.0	−	3.0	17.5	35.0	0.0	0.0	42.5	43.0	+
	48	0.00004	200	1.5	−	3.0	14.0	78.5	0.0	0.0	80.5	80.5	+

* Test chemical was precipitated.

Exprimental Data with Metabolic Activation

Treatment						Cell with Structural Chromosome Aberration (%)							
Substance	S9 mix	Concent-ration (mg/ml)	No. of Metaphase	Polyploid (%)	Judge-ment		Chromatid		Chromosome		Total		Judge-ment
						Gap	CTB	CTE	CSB	CSE	−G	+G	
DMSO	−		200	0.0	−	0.0	0.5	0.5	0.0	0.0	1.0	1.0	−
	+		200	1.0	−	0.0	0.5	0.5	0.0	0.0	1.0	1.0	−
Test	−	0.25	200	0.0	−	0.0	0.5	0.5	0.0	0.0	1.0	1.0	−
Chemical		0.5	200	1.5	−	0.0	0.0	1.0	0.0	0.0	1.0	1.0	−
		1.0	200	1.5	−	0.5	0.5	6.0	0.0	0.0	6.0	6.0	±
		1.5	200	5.5	±	0.0	6.5	11.5	0.0	0.0	11.5	11.5	+
		2.0 *	200	3.0	−	0.0	1.5	7.0	0.0	0.0	8.0	8.0	±
	+	0.25	200	2.5	−	0.0	0.5	1.0	0.0	0.0	1.5	1.5	−
		0.5	200	2.0	−	0.0	1.0	0.5	0.0	0.0	1.5	1.5	−
		1.0	200	0.0	−	0.5	3.0	10.0	0.0	0.0	12.0	12.0	+
		1.5	172	0.6	−	0.0	7.0	17.4	0.0	0.0	22.1	22.1	+
		2.0 *				No observation for metaphase							
Positive Control [B(a)P]	−	0.01	200	0.5	−	0.0	0.0	0.0	0.0	0.0	0.0	0.0	−
	+	0.01	200	0.5	−	0.0	2.5	26.5	0.0	0.0	28.0	28.0	+

* Test chemical was precipitated.