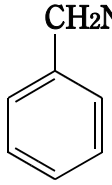
Benzyl azide
【ﾍﾞﾝｼﾞﾙｱｼﾞﾄﾞ】

Chemical Name;Benzyl azide
Synonym ;Azidomethylbenzene
α-Triazotoluene
α-Azidotoluene
ｱｼﾞﾄﾞﾒﾁﾙﾍﾞﾝｾﾞﾝ
α-ﾄﾘｱｿﾞﾄﾙｴﾝ
α-ｱｼﾞﾄﾄﾙｴﾝ

Molecular Weight ; 133.16
Melting Point ; - 15 ℃
Boiling Point ; 108 ℃(23mmHg) [CHCD]
Flashing Point ; — ℃
Molecular Formula; $C_7H_7N_3$

Chemical Structure



CAS No. ; 622-79-7
MITI No. ; —
ML No. ; 4-(13)-167
Specified Chemical Substances; —

Source of Substance; —
Lot No. ; —
Purity ; —

Vehicle ; DMSO

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

IARC Evaluation ; not yet cited

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	1.5	−	0.0	0.5	0.5	0.0	0.0	1.0	1.0	−
	48		200	0.0	−	0.0	0.0	0.0	0.0	0.0	0.0	0.0	−
Test	24	0.4	200	1.0	−	0.0	0.5	1.5	0.0	0.0	2.0	2.0	−
Chemical		0.8 *	200	1.0	−	0.0	0.0	0.5	0.0	0.0	0.5	0.5	−
		1.2 *	200	2.0	−	0.0	1.0	0.0	0.0	0.0	1.0	1.0	−
		1.6 *	200	1.5	−	0.0	0.0	0.0	0.0	0.0	0.0	0.0	−
		2.0 *	200	1.5	−	0.0	0.5	0.5	0.0	0.0	1.0	1.0	−
	48	0.4	200	0.0	−	0.0	0.0	0.5	0.0	0.0	0.5	0.5	−
		0.8 *	200	0.5	−	0.0	0.5	0.0	0.0	0.0	0.5	0.5	−
		1.2 *	200	0.5	−	0.5	0.0	1.0	0.0	0.0	1.0	1.5	−
		1.6 *	200	1.0	−	0.0	0.0	0.0	0.0	0.0	0.0	0.0	−
		2.0 *	200	0.5	−	0.0	0.0	0.0	0.0	0.0	0.0	0.0	−
Positive	24	0.00004	200	0.0	−	0.5	7.0	31.5	0.0	0.0	34.0	34.0	+
Control [MMC]	48	0.00004	200	0.0	−	1.0	7.0	40.0	0.0	1.0	45.0	45.0	+

* Test chemical was precipitated.

Exprimental Data with Metabolic Activation

Treatment			No. of Metaphase	Polyploid (%)	Judge-ment	Cell with Structural Chromosome Aberration (%)							
Substance	S9 mix	Concent-ration (mg/ml)					Chromatid		Chromosome		Total		Judge-ment
						Gap	CTB	CTE	CSB	CSE	−G	+G	
DMSO	−		200	1.5	−	0.0	0.5	0.0	0.0	0.0	0.5	0.5	−
	+		200	0.5	−	0.0	0.0	0.5	0.0	0.0	0.5	0.5	−
Test Chemical	−	0.02	200	0.5	−	0.0	0.0	0.0	0.0	0.0	0.0	0.0	−
		0.04	200	0.5	−	0.0	0.0	0.0	0.0	0.0	0.0	0.0	−
		0.08	200	0.0	−	0.0	0.5	0.0	0.0	0.0	0.5	0.5	−
		0.12	200	0.0	−	0.0	0.0	0.0	0.0	0.0	0.0	0.0	−
		0.16	200	0.5	−	0.0	0.0	0.0	0.0	0.0	0.0	0.0	−
	+	0.02	200	0.0	−	0.0	0.0	0.5	0.0	0.0	0.5	0.5	−
		0.04	200	1.0	−	0.0	0.0	1.5	0.0	0.0	1.5	1.5	−
		0.08	200	0.5	−	0.0	0.5	3.0	0.0	0.0	3.0	3.0	−
		0.12				No observation for metaphase							
		0.16				No observation for metaphase							
Positive Control [B(a)P]	−	0.01	200	0.5	−	0.0	0.0	0.5	0.0	0.0	0.5	0.5	−
	+	0.01	200	0.5	−	0.5	3.5	37.0	0.0	0.0	38.0	38.0	+