

Benzyl azide

(C9308-1/2)

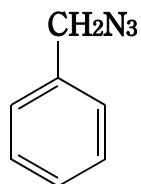
[ベンジルアジド]

Experimental Data without Metabolic Activation

Chemical Name; Benzyl azide
 Synonym ; Azidomethylbenzene
 α -Triazotoluene
 α -Azidotoluene
 アジドメチルベンゼン
 α -トリアゾトルエン
 α -アジドトルエン

Molecular Weight ; 133.16
 Melting Point ; - 15 °C
 Boiling Point ; 108 °C (23mmHg) [CHCD]
 Flashing Point ; - °C
 Molecular Formula; C₇H₇N₃

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

Substance	Treatment		No. of Metaphase	Polyploid (%)	Judge-ment	Cell with Structural Chromosome Aberration (%)							Judge-ment
	Time (h)	Concentration (mg/ml)				Chromatid					Total		
						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 Chemical	24	0.4	200	1.0	-	0.0	0.5	1.5	0.0	0.0	2.0	2.0	-
		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 Control	24	0.00004	200	0.0	-	0.5	7.0	31.5	0.0	0.0	34.0	34.0	+
[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.

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

IARC Evaluation ; not yet cited

Experimental Data with Metabolic Activation

Treatment			No. of Metaphase	Polyploid (%)	Judge- ment	Cell with Structural Chromosome Aberration (%)							Judge- ment
Substance	S9 mix	Concent- ration (mg/ml)				Chromatid		Chromosome		Total			
						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	+