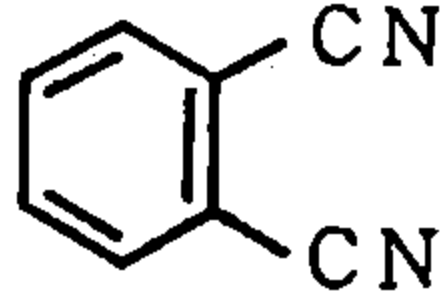


o-Phthalodinitrile (o-フタロジニトリル)

Experimental Data

Chemical Name: <u>o-Phthalodinitrile</u>
Synonym <u>1,2-Benzenedicarbonitrile</u>
Molecular weight: 128.13
Melting point: °C
Boiling point: 141°C
Chemical Structure

CAS No: 91-15-6
MITI No: (3)-1799
Specified chemical substances: G2
Source of Substance: Tokyo Kasei Kogyo Co. Ltd
Lot. No.: FB001
Purity: Guaranteed reagent
Vehicle: DMSO

Mutagenicity
in Bacterial Test: Negative

IARC Evaluation: not yet cited

Judgement
Specific Mutagenicity

Positive
Control

Con. μg/ 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+
DMSO	(122)	(128)	(15)	(14)	(30)	(42)	(24)	(24)	(8)	(15)	(15)	(20)
	137	128	13	12	32	24	27	19	8	10	8	28
	116	117	9	14	21	35	18	19	10	12	12	16
20	(127)	(123)	(11)	(13)	(27)	(30)	(23)	(19)	(9)	(11)	(10)	(22)
	113	140	12	11	20	34	25	25	11	18	15	17
	128	117	10	13	30	45	23	23	7	12	13	21
50	(121)	(129)	(11)	(12)	(25)	(40)	(24)	(24)	(9)	(15)	(14)	(19)
	106	129	10	8	25	24	17	22	5	12	12	13
	94	110	13	12	34	53	20	19	6	11	7	17
100	(100)	(120)	(12)	(10)	(30)	(39)	(19)	(21)	(6)	(12)	(10)	(15)
	117	110	16	13	37	47	25	13	8	9	8	13
	102	112	13	9	22	40	22	17	6	3	14	20
200	(110)	(111)	(15)	(11)	(30)	(44)	(24)	(15)	(7)	(6)	(11)	(17)
	98	105	10	19	31	41	16	17	8	5	13	16
	97	106	12	15	32	43	15	20	12	12	11	12
500	(98)	(106)	(11)	(17)	(32)	(42)	(16)	(19)	(10)	(9)	(12)	(14)
	107	132	7	12	23	53	20	11	13	7	6	14
	97	114	8	15	24	45	15	18	6	7	10	20
1000	(102)	(123)	(8)	(14)	(24)	(49)	(18)	(15)	(10)	(7)	(8)	(17)
	106	109	8	12	17	45	16	17	9	15	11	18
	112	106	11	15	23	49	13	13	12	13	9	16
2000	(109)	(108)	(10)	(14)	(20)	(47)	(15)	(15)	(11)	(14)	(10)	(17)
	115	107	12	9	24	55	24	18	9	10	11	9
	110	127	9	11	21	50	18	17	11	12	13	15
5000	(113)	(117)	(11)	(10)	(23)	(53)	(21)	(18)	(10)	(11)	(12)	(12)
	—	—	—	—	—	—	—	—	—	—	—	—
	AF2	2AA 0.5	NaN ₃	2AA	AF2	2AA	AF2	2AA	9AA	2AA	2NF	2AA
	(338)	(921)	(145)	(111)	(194)	(654)	(251)	(527)	(1137)	(313)	(388)	(684)