

In vitro Mammalian chromosome aberration test (OECD TG473)

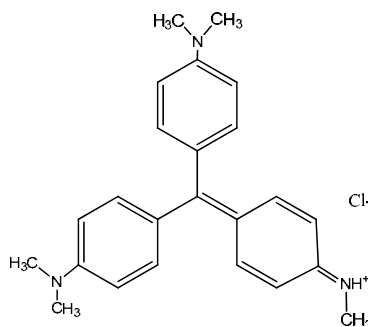
– Data Sheet –

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The data sheet was reviewed and created by Hazard-Data Evaluation Committee of National Institute of Technology and Evaluation in fiscal year 2011 based on the study report obtained by Ministry of Economy, Trade and Industry.

Test substance

MITI No. : 5-1969
CAS No. : 8004-87-3
Chemical name : C.I. Basic Violet 1
Molecular weight : 393.95
Molecular formula : $C_{24}H_{28}ClN_3$
Structural formula :



Appearance : Dark yellow-green to dark green crystal (nub)
Solubility : Soluble in ethanol and chloroform, slightly soluble in glycerin, insoluble in ethyl ether
Purity : Unknown

Experimental Method

Cells : Chinese hamster lung fibroblast cell line (CHL/IU)
Vehicle : 0.5% CMC-Na aqueous solution (suspended)
Dosage : Short-term treatment (-S9mix) 3.75 - 60 $\mu\text{g}/\text{mL}$
Short-term treatment (+S9mix) 23.7 - 180 $\mu\text{g}/\text{mL}$
Continuous treatment (24h) 3.75 - 60 $\mu\text{g}/\text{mL}$
Evaluation Criteria : Incidence of cells with chromosome aberration
<5%; negative
5% , <10%; equivocal
10% ; positive

Result

Structural aberration: positive: (continuous treatment 24h)
D20 value: 4.51 $\mu\text{g}/\text{mL}$
Numerical aberration: negative

Note