

Research Laboratory Report No. 151

Copy No. 13

IMPERIAL TOBACCO LIMITED
RESEARCH LABORATORY
MONTREAL

GROUP A & D CENTRE	
Recd:	16 JUN 1977
Ack:
Seen by:
File:

USE OF THE NITROMETHANE FRACTION INDEX (NMFI) AS AN
INDICATOR OF BIOLOGICAL ACTIVITY OF SMOKE

RESTRICTED

Authors: M.P. Scherbak and T.A. Smith

Project No.: T-7092

Issued By: Dr. T.A. Smith

Date issued: April 12, 1977.

DISTRIBUTION:

Copy No.	1. Library	15. Dr. R.A. Sanford
	2. Mr. R.M. Gibb	16. Dr. R.A. Sanford
	3. Mr. R.S. Wade	17. Mr. R.G. Nicholls
	4. Mr. S.M. Candlish	18. Mr. R.G. Nicholls
	5. Dr. T.A. Smith	19. Dr. M.H. Billimoria
	6. Mr. M.P. Scherbak	20. Dr. P.J. Dunn
	7. Dr. S.J. Green	21. Mr. A.F. EL Naggar
	8. Mr. H.H. Sottorf	22. Mr. E.R. Friesleben
	9. Dr. F. Seehofer	23. Ms. J. Johnson
	10. Dr. W.B. Fordyce	24. Mr. R.L. Rice
	11. Dr. D.G. Felton	25. Mr. A. Schaffer
	12. Dr. D.G. Felton	26. Mr. E.P. Gage
	13. Dr. C.I. Ayres ✓	27. Mr. W.A. Gray
	14. Dr. I.W. Hughes	28. Mr. A.I. Kalhok
		29. Mr. W.J. Ross
		30. Mr. N.D. MacIennan
		31. Mr. C.J. Brown

107469799

USE OF THE NITROMETHANE FRACTION INDEX (NMFI) AS AN
INDICATOR OF BIOLOGICAL ACTIVITY OF SMOKE

SUMMARY

The Nitromethane Fraction Index (NMFI) has been established in this laboratory using the method developed by BAT (Hamburg) and modified by GR & DC (Southampton). It is a relatively rapid and inexpensive test which can give a useful indication of relative biological activity, as assessed by mouse skin painting test. The test is to be kept confidential within the BAT group.

It is recommended that the NMFI test be applied to samples in future projects where there is a possibility of a change in the biological activity of the smoke.

107469800