

ENVIRONMENTAL CONSIDERATIONS	19
A. Metallic Octane Enhancers	19
B. Alcohol Additives	20
SELECTED BIBLIOGRAPHY	21
APPENDIX A: List of Witnesses	25
APPENDIX B: List of Submitters	29

.....	PREFACE
.....	RECOMMENDATIONS
.....	SUMMARY
.....	TECHNICAL CONSIDERATIONS
.....	A. What Are the Fuel-Oxygenates?
.....	1. Methanol
.....	2. Ethanol
.....	3. Isopropanol (IPA)
.....	4. Isobutanol (IBA)
.....	5. Tertiary Butyl Alcohol (TBA)
.....	6. Methyl Tertiary Butyl Ether (MTBE)
.....	7. Observations
.....	B. Gasoline Blending
.....	1. Octane Rating
.....	2. Volatility
.....	3. Water Tolerance
.....	4. Oxygen Content
.....	5. Heating Values
.....	ECONOMIC CONSIDERATIONS
.....	A. The Economics of Ethanol as an Octane Enhancer
.....	1. One-Time Conversion Costs
.....	2. Ongoing Costs: Alcohol Additives
.....	3. Financing the Ethanol Additive
.....	4. Production Incentives
.....	5. Answer Lies in Better Technology
.....	6. Reliability of Supply
.....	7. Effect on Competitive Pricing
.....	8. Existing Subsidy Programs for Ethanol Plants
.....	9. Assessing the Costs