

List of Acronyms

A/F	air/fuel ratio
AML	acute myeloid leukemia
ANPRM	Advanced Notice of Proposed Rulemaking
API	American Petroleum Institute
ASTM	American Society for Testing and Materials
bbbl	barrel
BCA	benefit-cost analysis
BTU	British Thermal Unit
C-R	concentration response
CAA or the Act	Clean Air Act
CAP	Compliance Assurance Program (2000)
CARB	California Air Resources Board
CASAC	Clean Air Science Advisory Committee
CG	conventional gasoline
CML	chronic myeloid leukemia
CO	carbon monoxide
COI	cost of illness
COPD	chronic obstructive pulmonary disease
cpai	cells per square inch
CRC	Coordinating Research Council
CRDM	Climatological Regional Dispersion Model
DOE	U.S. Department of Energy
EGR	exhaust gas recirculation
EHC	electrically heated catalyst
EIA	Energy Information Administration
EPA or the Agency	U.S. Environmental Protection Agency
ERIC	Emissions Reduction and Intercept Control (system)
FCC	fluidized catalytic cracker
FTP	Federal Test Procedure
GDI	gasoline direct injection

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GPA	Geographic Phase-in Area
GVWR	gross vehicle weight rating
HAPEM	Hazardous Air Pollutant Exposure Model
HC	hydrocarbon
HDV	heavy-duty vehicle
HEGO	heated exhaust gas oxygen (sensor)
I/M	inspection/maintenance
ICI	independent commercial importer
IRFA	initial regulatory flexibility analysis
LDT	light-duty truck
LDV	light-duty vehicle
LEV	low emission vehicle
LPG	liquid petroleum gas
MDPV	medium-duty passenger vehicle
MECA	Manufacturers of Emission Controls Association
MLE	maximum likelihood estimate
MRAD	minor restricted activity days
MSCF	thousand standard cubic feet
MTBE	methyl tertiary-butyl ether
NAAQS	National Ambient Air Quality Standards
NAPAP	National Acid Precipitation Assessment Program
NFRAQS	Northern Front Range Air Quality Study
NLEV	national low emission vehicle
NMHC	non-methane hydrocarbons
NMOG	non-methane organic gases
NO ₂	nitrogen dioxide
NO _x	oxides of nitrogen
NPC	National Petroleum Council
NPRA	National Petrochemical & Refiners Association
NPRM	Notice of Proposed Rulemaking
OAQPS	Office of Air Quality Planning and Standards
OBD	on-board diagnostics
OMB	Office of Management and Budget

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OMS	Office of Mobile Sources
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ORNL	Oak Ridge National Laboratory
OSTP	(White House) Office of Science and Technology Policy
OTAG	Ozone Transport Assessment Group
PADD	Petroleum Administrative Districts for Defense
PCM	powertrain control module
Pd	palladium
PM	particulate matter
PNGV	Partnership for a New Generation of Vehicles
ppm	part per million
Pt	platinum
R&D	research and development
RFA	Regulatory Flexibility Act
RfC	reference concentration
RFG	reformulated gasoline
Rh	rhodium
ROI	return on investment
ROTR	Regional Ozone Transport Rule
RPE	retail price equivalent
RVP	Reid Vapor Pressure
S-R Matrix	Source-Receptor Matrix
S&P DRI	Standard & Poor's Data Research International
SAB	Science Advisory Board
SBA	U.S. Small Business Administration
SBARP or the Panel	Small Business Advocacy Review Panel
SBREFA	Small Business Regulatory Enforcement Fairness Act
SCR	selective catalytic reduction
SER	Small Entity Representative
SFTP	Supplemental Federal Test Procedure
SIC	Standard Industrial Classification
SIGMA	Society of Independent Gasoline Marketers of America
SIP	State Implementation Plan

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SO ₂	sulfur dioxide
SO _x	oxides of sulfur
SULEV	super ultra low emission vehicle
SVM	small volume manufacturer
SVM	small volume manufacturer (of vehicles)
SwRI	Southwest Research Institute
TOG	total organic gases
TW	test weight
UAM	Urban Airshed Model
UCL	upper confidence limit
UEGO	universal exhaust gas oxygen (sensor)
ULEV	ultra low emission vehicle
UV	ultra violet
VMT	vehicle miles traveled
VNA	Voronoi Neighbor Averaging
VOC	volatile organic compound
WLD	work loss days
WTP	willingness to pay