

## Automotive test gases

**Automotive test gases** are available in a broad range of composition. The listed PRMs are typical examples of automotive test gases and are prescribed in OIML recommendation R99 "Instruments for measuring vehicle exhaust emissions". Matrix gas is nitrogen.

The U.S.A. Environmental Protection Agency (EPA) has declared that traceability can be achieved by applying NMI Primary Reference Materials. Other compositions are available on request.

PRM code	Certified component	Nominal fraction range (mol/mol)	Stability period
OIML-1	CO	$0,5 \cdot 10^{-2}$	24 months
	CO <sub>2</sub>	$6,0 \cdot 10^{-2}$	
	C <sub>3</sub> H <sub>8</sub>	$0,02 \cdot 10^{-2}$	
	O <sub>2</sub>	$0,5 \cdot 10^{-2}$	
OIML-2	CO	$1,0 \cdot 10^{-2}$	24 months
	CO <sub>2</sub>	$10,0 \cdot 10^{-2}$	
	C <sub>3</sub> H <sub>8</sub>	$0,06 \cdot 10^{-2}$	
	O <sub>2</sub>	$10,0 \cdot 10^{-2}$	
OIML-3	CO	$3,5 \cdot 10^{-2}$	24 months
	CO <sub>2</sub>	$14,0 \cdot 10^{-2}$	
	C <sub>3</sub> H <sub>8</sub>	$0,2 \cdot 10^{-2}$	
	O <sub>2</sub>	$0,5 \cdot 10^{-2}$	
OIML-4	CO	$5,0 \cdot 10^{-2}$	24 months
	CO <sub>2</sub>	$14,0 \cdot 10^{-2}$	
	C <sub>3</sub> H <sub>8</sub>	$0,2 \cdot 10^{-2}$	
	O <sub>2</sub>	$20,9 \cdot 10^{-2}$	
OIML-5	O <sub>2</sub>	$1,0 \cdot 10^{-2}$	36 months
OIML-6	O <sub>2</sub>	$10,0 \cdot 10^{-2}$	36 months

Cylinder pressure 11,5 MPa, Cylinder valve outlet DIN 477 no. 1, Approximate deliverable volume 0,6 m<sup>3</sup>.