

Target Compound



CAS #

Conversion Formula RQ IE (eV)

Worker Safety

PEL (OSHA)	<input type="text" value="N/A"/>
REL (NIOSH)	<input type="text" value="N/A"/>
TLV (ACGIH)	<input type="text" value="N/A"/>
IDLH	<input type="text" value="N/A"/>
STEL	<input type="text" value="N/A"/>

Public Safety

AEGL-1 10 min	<input type="text" value="No AEGL information available."/>
AEGL-1 30 min	<input type="text" value="No AEGL information available."/>
AEGL-1 60 min	<input type="text" value="No AEGL information available."/>
AEGL-1 4 hr	<input type="text" value="No AEGL information available."/>
AEGL-1 8 hr	<input type="text" value="No AEGL information available."/>
AEGL-2 (Irreversible health effects, 60 min)	<input type="text" value="No AEGL information available."/>
AEGL-3 (Life threatening health effects, 60 min)	<input type="text" value="No AEGL information available."/>
PAL-1	<input type="text" value="No PAL information available."/>
PAC-1	<input type="text" value="N/A"/>
ERPG-1	<input type="text" value="No ERPG information available."/>
TX AMCV (ppm)	<input type="text" value="-"/>
ATSDR MRL (1-14 days)	<input type="text" value="0.0007 mg/kg/day"/>
Odor Threshold Values (ppm)	<input type="text" value="-"/>

Sampling

Air Sampling Method	<input type="text" value="N/A"/>
Holding Time	<input type="text" value="N/A"/>
Air Sampling Media	<input type="text" value="N/A"/>
Flow Rate	<input type="text" value="N/A"/>
Sample Volume	<input type="text" value="N/A"/>

Abbreviations:

PEL: Permissible Exposure Limit
 REL: Recommended Exposure Level
 TLV: Threshold Limit Value
 IDLH: Immediately Dangerous to Life and Health
 STEL: Short Term Exposure Limit
 RQ: Reportable Quantity
 AEGL: Acute Exposure Guideline Levels
 - AEGL-1: General population could experience notable discomfort or certain asymptomatic effects. The effects are reversible upon cessation of exposure.
 - AEGL-2: General population could experience irreversible or adverse health effects or an impaired ability to escape.
 - AEGL-3: General population could experience life-threatening health effects or death.
 @: releases less than 1000 pounds per 24 hours to the air resulting from combustion are exempt from notification
 †: Considered hazardous, but no RQ assigned IE = Ionization Energy N/A = Not Available
 ‡ Indicates that odor should be detectable near ERPG-1 and the ERPG-1 value was used.

PAL-1: Professional Advisory Level
 PAC-1: Protective Action Criteria
 ERPG-1: Emergency Response Planning Guide
 TX AMCV: TCEQ's Air Monitoring Comparison Values
 ATSDR MRL: Agency for Toxic Substances and Disease Registry Minimal Risk Levels
 C = Ceiling Ca = Potential Occupational Carcinogens

Target Compound Perchlorate



Instrument	TUL START	DTX START	HTX START	BLA START	EPA Warehouse (Addison)	Resolution Detection Limit (ppm)	Detection Range	PID Lamp	Intrinsically Safe
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Instruments available not applicable to target compound

Notes: **PIDs such as MultiRAE Pro, AreaRAE Pro, TVA 2020, FIDs such as TVA 2020, and particulate monitors such as the PDR 1500, TSI DustTrak, or other instruments do not speciate between specific compounds.

Abbreviations: CS: Compound Specific sensors or tubes; PH: Petroleum Hydrocarbons sensors or tubes; AT: Acid Test sensors or tubes CF: Correction Factor

PID: Photoionization detector FID: Flame ionization detector ppm: part per million VOC: Volatile organic compounds eV: electron volt

LEL: Lower explosive limit $\mu\text{g}/\text{m}^3$ = milligrams per cubic meter $\mu\text{g}/\text{m}^3$ = micrograms per cubic meter PDR: Personal dataRAM

Note: If using an instrument from the EPA Warehouse, call ahead to verify availability.

Last Updated: 10/1/2025

Phased Air Monitoring Tiers (PATS)



Name of Substance: Perchlorate

CAS ID #: 14797-73-0

<u>N/A</u>	1-hr TWA	MAXIMUM 1-HR. EXPOSURE WITH TRANSIENT AND REVERSIBLE HEALTH EFFECTS [TEEL-1]
<u>N/A</u>	1-hr TWA	MAXIMUM 1-HR. EXPOSURE WITH MILD AND TRANSIENT HEALTH EFFECTS [ERPG-1]
<u>N/A</u>	8-hr TWA	MAXIMUM AIRBORNE EXPOSURE WITH TRANSIENT AND REVERSIBLE HEALTH EFFECTS [AEG-1]
_____		LOCAL GOVERNMENT ACTION LEVEL (IF APPLICABLE)
_____		UC ACTION LEVEL CONFIRM NOTIFY LOCAL GOVERNMENT
<u>N/A</u>		TX INSTANTANEOUS COMPARISON VALUE (3X THE AMCV IS AN INSTANTANEOUS READING, IF READINGS ARE ABOVE THE INSTANTANEOUS READING, CONDUCT A 1-HR TWA)
<u>N/A</u>		EQUIPMENT DETECTION LIMIT Lowest level per detection equipment Equipment: N/A
<u>N/A</u> ppm		Odor Threshold (ppm)

Last Updated: 9/30/2025

* Indicates the chemical is a possible carcinogen.

** PIDs such as MultiRAE Pro, AreaRAE Pro, TVA 2020, FIDs such as TVA 2020, particulate monitors such as the PDR 1500, TSI DustTrak, or other instruments that do not speciate between specific compounds.

NOTE: For the 10-min, 1-hr, and 4-hr AGELs refer to the Emergency Response Air Monitoring Guide Table.

NOTE: The values above are compiled from various sources, which update at varying frequencies. This plan should be reviewed annually, and its associated values will be updated accordingly. Users of this plan should always verify the values listed are the most current values listed in the originating source.

TWA - Time Weighted Average TEEL - Temporary Emergency Exposure Limit