

☒ **CTL Provisional DECISION SHEET (PDSH)**
☐ **CTL DECISION SHEET (DSH)**

Standard(s) (incl. year)	Subclause(s)	Tracking No.		
IEC 60335-1:2010 + A1:2013 + A2:2016 IEC 60335-1:2020	Clause 19.13	2282		
Category				
HOUS				
Subject	Keywords	Developed by		
Poisonous or ignitable gas	Gas	ETF 1		
Question				
<p>In accordance with the requirements outlined clause 19, among others the appliance shall not emit poisonous or ignitable gas in hazardous amounts.</p> <p>However, the standard does not define a test procedure for measuring poisonous or ignitable gas, nor does it define the limit values considered as hazardous amounts of gas.</p> <p>By what method and instrumentation shall the presence of poisonous or ignitable gases be measured or detected during testing?</p> <p>What limit values are considered as hazardous amounts?</p>				
Decision				
<p>1.) For many appliances in scope of IEC 60335-1: 2020 it is unlikely that such gases are emitted as they are not included or produced by the appliance. No special detection of poisonous or ignitable gas is required for such appliances. If it is obvious that poisonous or ignitable gas is emitted, the compliance criteria of 19.13 are not fulfilled.</p> <p>2.) For appliances which include or may produce poisonous or ignitable gas in normal or abnormal conditions (e.g. gas burning appliances, refrigerators, appliances containing lead-acid batteries) poisonous or ignitable gas shall be detected either by:</p> <ul style="list-style-type: none"> a) means of leakage spray on relevant parts, or b) for gases with odor, via the sense of smell, or c) usage of adequate gas measuring device suitable for the expected gas, or d) other suitable detection method <p>If there is a detection of poisonous or ignitable gas during the measurement of a) b) c) or d) or it is obvious that poisonous or ignitable gas is emitted the compliance criteria of 19.13 is not fulfilled.</p>				
Explanatory notes				
Enquiry:				
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PDSH:				
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DSH				
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There is no description in the standard how to measure / detect poisonous or ignitable gas.

There is a wide range of poisonous or ignitable gas. No commercially available measuring devices / instrument are known that are capable of detecting and analyzing all possible types of poisonous or ignitable gas.