

Mil-Standard-883 Test Method 1014

Title =

Leak Rate Standard Gas (L) = atm cc/s

Define One Std Atm (Po) = PSI ABS

Tracer Bomb Pressure (Pe) = PSI ABS

Tracer Bomb Time(t1) = hr

Dwell Time (t2) = hr

Package Volume (V) = cc

Standard Gas = (i.e. Air)

MW (Standard Gas) =

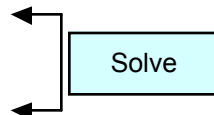
Tracer Gas = (i.e. Helium)

MW (Tracer Gas) =

----- Con	
<input type="text" value="0"/>	PSI Guage
<input type="text" value="30.3"/>	PSI Guage
<input type="text" value="186144.7"/>	min
<input type="text" value="30"/>	min

Answer
Leak Rate Tracer Gas (R1) = cc/s

Given R1, Find Bomb Time
Match Tracer Leak Rate = cc/s



This model per U
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 Gas (pop-up ment
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 TE boxes. The "m
 ven R1.
 , Microsemi, Versic

Three Terms in Formula

1st Term =	<input type="text" value="4.09839E-11"/>
2nd Term =	<input type="text" value="0.121925287"/>
3rd Term =	<input type="text" value="0.999979045"/>

Constants

secPerHr =	<input type="text" value="3600"/>
PSIperATM =	<input type="text" value="14.7"/>
Ratio =	<input type="text" value="0.999373932"/>
Message 1 =	<input type="text"/>
Message 2 =	<input type="text"/>

I.11

Conversion to Other Units -----

1	ATM ABS	760	Torr ABS
3.06122449	ATM ABS	2326.531	Torr ABS
129.26713	Days	0.354157	Years
0.020833333	Days		

per US National Bureau of Standards, 1974:

Standard Gas (pop-up menu) whose leak rate is the
specification. This is almost always air.

Standard bomb pressure and bomb time followed
Standard bomb before leak detection.

Standard menu) used for leak detection
(85).

The "match" function is optional

Version 10/22/05