

BOILING POINT

TEST SUBSTANCE

Identity: N-Ethylperfluorooctanesulfonamide; may also be referred to as U1464, EtFOSA, EtPOSA, F-6309, or FX-12. (1-Octanesulfonamide, 1,1,2,2,3,3,4,4,5,5,6,6,7,7,8,8,8-hepta-decafluoro-N-ethyl-, CAS # 4151-50-2)

Remarks: Material is a white solid of uncharacterized purity.

METHOD

Method: The boiling point was determined as a part of the OECD Guideline 104, "Vapor Pressure Curve, Dynamic Method" study.

GLP (Y/N): No

Year completed: 1998

Remarks: Extrapolation method used.

RESULTS

Remarks: Laboratory testing was not completed. Values were extrapolated using the temperature and pressure curves obtained for the test substance during the vapor pressure study. The extrapolations are below:

Pressure (mm Hg)	Boiling Temp., °C
42	171.6
58	178.8
68	181.8
86	186.4
94	190.2
760	423
$r^2 = 0.9961$	

Pressure (mm Hg)	Boiling Temp., °C
47	174.4
75	183.8
86	188
95	191
106	193
760	407
$r^2 = 0.9960$	

CONCLUSIONS

Remarks: The boiling point of the test substance was estimated using temperature and pressure curves.

DATA QUALITY

Reliability: Klimisch ranking = 3. Results are from extrapolation. These studies lack analytical data for determination of the sample purity.

REFERENCES

Study conducted at the request of 3M Company by AScl Corporation,
Duluth, MN

OTHER

Submitter: 3M Company, Environmental Laboratory, P.O. Box 33331,
St. Paul, Minnesota, 55133

Last changed: 5/18/00

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ASCI Corporation

 4444 Airpark Boulevard, Duluth, Minnesota 55811
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November 30, 1998

 Ms. Susan Beach
 3M Environmental Technology
 & Safety Services
 935 Bush Avenue
 St. Paul, Minnesota 55133

Dear Ms. Beach:

I am writing in response to your request of boiling point information for test items U1463 and U1464. Unfortunately we did not obtain empirical values for the boiling point of either item. Although experimental values were not obtained, we did extrapolate values using the temperature and pressure curves obtained for both items. The tables below summarize the extrapolations.

Test Item U1463 FL-10

Pressure (mm Hg)	Boiling Temp. (°C)	Pressure (mm Hg)	Boiling Temp. (°C)
42	174.6	37	172.2
55	179.0	48	176.4
67	187.2	68	188.2
81	190.2	83	191.6
96	197.0	93	195.8
760	474	760	482
$r^2=0.9902$		$r^2=0.9908$	

Test Item U1464 FX-12

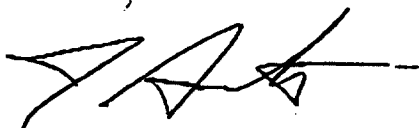
Pressure (mm Hg)	Boiling Temp. (°C)	Pressure (mm Hg)	Boiling Temp. (°C)
42	171.6	47	174.4
58	178.8	75	183.8
68	181.8	86	188.0
83	186.4	95	191.0
94	190.2	106	193.0
760	423	760	407
$r^2=0.9961$		$r^2=0.9960$	

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November 30, 1998
Ms. Beach - 3M Co.
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I apologize that the extrapolated values were all we can provide. The boiling point for both compounds should have been determined before vapor pressure determination. Please call if you need further information.

Sincerely,

A handwritten signature in black ink, appearing to be 'Joe Amato', with a stylized flourish at the end.

Joe Amato
Deputy Director, AScI-ETD

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