National Standards Authority of Ireland

IRISH STANDARD

I.S. EN ISO 14912:2007

ICS 71.040.40

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GAS ANALYSIS - CONVERSION OF GAS MIXTURE COMPOSITION DATA (ISO 14912:2003)

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English version
Version Française
Deutsche Fassung

Gas analysis - Conversion of gas mixture composition data (ISO 14912:2003/Cor 1:2006)

Analyse des gaz - Conversion des données de composition de mélanges gazeux (ISO 14912:2003/Cor 1:2006)

Gasanalyse - Umrechnung von Zusammensetzungsangaben für Gasgemische (ISO 14912:2003/Cor 1:2006)

This corrigendum becomes effective on 28 November 2007 for incorporation in the three official language versions of the EN.

Ce corrigendum prendra effet le 28 novembre 2007 pour incorporation dans les trois versions linguistiques officielles de la EN.

Die Berichtigung tritt am 28.November 2007 zur Einarbeitung in die drei offiziellen Sprachfassungen der EN in Kraft.

EUROPEAN COMMITTEE FOR STANDARDIZATION
COMITÉ EUROPÉEN DE NORMALISATION
EUROPÄISCHES KOMITEE FÜR NORMUNG

Management Centre: rue de Stassart, 36 B-1050 Brussels

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English version

Endorsement Notice

The text of ISO 14912:2003/Cor.1:2006 has been approved by CEN as a European Corrigendum without any modifications.

Version française

Notice d'entérinement

Le texte de l'ISO 14912-1:2003/Cor.1:2006 a été approuvé par le CEN comme Corrigendum européen sans aucune modification.

INTERNATIONAL STANDARD ISO 14912:2003
TECHNICAL CORRIGENDUM 1

Published 2006-08-01

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Gas analysis — Conversion of gas mixture composition data

TECHNICAL CORRIGENDUM 1

Analyse des gaz — Conversion des données de composition de mélanges gazeux

RECTIFICATIF TECHNIQUE 1

Technical Corrigendum 1 to ISO 14912:2003 was prepared by Technical Committee ISO/TC 158, *Analysis of gases*.

The objective of this Corrigendum is to correct uncertainty data for errors that occurred in data processing (inconsistent rounding, transcription errors).

In the original version of Table C.1, errors occurred in the preparation of the data for the uncertainty of the molar masses [4th column, $u(M)$]. These data were obtained by uncertainty propagation from published data for the uncertainty of atomic weights of the elements concerned, and subsequent rounding to four decimal places. This rounding was performed inconsistently. In addition, for one gas (Argon) a transcription error occurred. These errors are corrected in Table C.1.

In the computer programme CONVERT that is available for ISO 14912 (see Annex E), the uncertainty data are used as obtained from the calculation, i.e. without rounding. Therefore, this programme is not affected.

Page 35

Replace Table C.1 with the following table.

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Table C.1 — Mixture component data

Component	Formula	M	$u(M)$	B'_0	B'_{30}	$u(B'_{dat})$	Z_{amb}
Acetylene	C_2H_2	26,037 3	0,001 6	− 8,4	− 5,8	0,5	0,992 90
Air	—	28,962 5	0,000 2	− 0,58	− 0,27	0,02	0,999 58
Ammonia	NH_3	17,030 6	0,000 2	− 14,9	− 9,7	0,5	0,987 70
Argon	Ar	39,948 0	0,001 0	− 0,96	− 0,61	0,05	0,999 22
Arsine	AsH_3	77,945 4	0,000 2	− 12	− 9	0,5	0,989 50
Benzene	C_6H_6	78,112 0	0,004 8	− 82	− 57	5	—
Boron trichloride	BCl_3	117,169 0	0,007 5	− 39	− 29	3	0,966 00
Boron trifluoride	BF_3	67,806 0	0,007 0	− 6	− 4	0,5	0,995 00
Bromochlorodifluoromethane	$CBrClF_2$	165,364 2	0,001 6	− 34	− 24	0,5	0,971 00
Bromomethane	CH_3Br	94,938 5	0,001 3	− 31,1	− 20,5	0,5	0,974 20
Bromotrifluoromethane	$CBrF_3$	148,909 9	0,001 3	− 17	− 13	0,5	0,985 00
1,2-Butadiene	C_4H_6	54,090 4	0,003 2	− 45	− 31	5	0,962 00
1,3-Butadiene	C_4H_6	54,090 4	0,003 2	− 34	− 24	1	0,971 00
n-Butane	C_4H_{10}	58,122 2	0,003 3	− 42,2	− 28,9	0,2	0,964 45
1-Butene	C_4H_8	56,106 3	0,003 3	− 35	− 25	1	0,970 00
cis-2-Butene	C_4H_8	56,106 3	0,003 3	− 39	− 27	2	0,967 00
trans-2-Butene	C_4H_8	56,106 3	0,003 3	− 38	− 27	2	0,967 50
1-Butyne	C_4H_6	54,090 4	0,003 2	− 43,6	− 29,9	1	0,963 25
Carbon dioxide	CO_2	44,009 5	0,001 0	− 6,69	− 4,75	0,03	0,994 28
Carbon disulfide	CS_2	76,143 0	0,012 2	− 45	− 32	1	—
Carbon monoxide	CO	28,010 1	0,000 9	− 0,66	− 0,31	0,05	0,999 52
Carbonyl chloride	$COCl_2$	98,915 5	0,002 0	− 32	− 22	3	0,973 00
Carbonyl fluoride	COF_2	66,006 9	0,000 9	− 8	− 6	0,2	0,993 00
Carbonyl sulfide	COS	60,076 0	0,006 2	− 14,9	− 10,8	0,5	0,987 15
Chlorine	Cl_2	70,905 4	0,001 8	− 15,8	− 11,8	0,1	0,986 20
Chlorine trifluoride	ClF_3	92,447 9	0,000 9	− 34	− 24	3	0,971 00
1-Chloro-1,1-difluoroethane	$C_2H_3ClF_2$	100,495 0	0,001 8	− 49,6	− 31	0,2	0,959 70
Chlorodifluoromethane	$CHClF_2$	86,468 1	0,001 2	− 19,1	− 13,7	0,1	0,983 60
Chloroethane	C_2H_5Cl	64,513 8	0,001 9	− 43	− 29	3	0,964 00
Chloromethane	CH_3Cl	50,487 2	0,001 2	− 23,1	− 15,8	0,1	0,980 55
Chloropentafluoride	ClF_5	130,444 7	0,000 9	− 27,5	− 19,3	1	0,976 60
Chloropentafluoroethane	C_2ClF_5	154,466 1	0,001 8	− 22,5	− 15,8	0,1	0,980 85
1-Chloro-1,1,2,2-tetrafluoroethane	C_2HClF_4	136,475 7	0,001 8	− 36,5	− 25,3	1	0,969 10
Chlorotrifluoroethene	C_2ClF_3	116,469 3	0,001 8	− 26	− 18	0,2	0,978 00
Chlorotrifluoromethane	$CClF_3$	104,458 6	0,001 2	− 12,1	− 8,6	0,1	0,989 65
Cyanogen	C_2N_2	52,035 0	0,001 6	− 24	− 15	0,5	0,980 50