# ISO/TR 14786:2014-01 (E)

## Nanotechnologies - Considerations for the development of chemical nomenclature for selected nano-objects

## Contents

Page


Foreword ..... iv

Introduction ..... v

1 Scope ..... 1

2 Normative references ..... 1

3 Termsanddefinitions ..... 1

4 Abbreviated terms ..... 2

5 Nomenclature ..... 3
5.1 Nomenclature defined ..... 3
5.2 Chemical nomenclature ..... 3
5.3 International Union of Pure and Applied Chemistry (IUPAC) chemical nomenclature ..... 3
5.4 Chemical Abstracts Service (CAS) chemical nomenclature ..... 4

6 Chemical nomenclature systems for nano-objects and other relevant approaches ..... 4

7 Survey of nano-objects ..... 5
7.1 General ..... 5
7.2 Selection of public listings of nano-objects ..... 6
7.3 Ranking of surveyed nano-objects ..... 7
7.4 Ranking results ..... 8

8 Considerations for a nomenclature system for nano-objects ..... 11
8.1 General ..... 11
8.2 General considerations for chemical nomenclature for nano-objects ..... 12
8.3 Features of interest reported through ISO/TC 229 survey mechanism ..... 12
8.4 Further identification and discussion of key features of nano-objects ..... 15
8.5 Illustrations of possible chemical nomenclature approaches for selected nano-objects ..... 15
8.6 Supplemental features of a chemical nomenclature system for nano-objects ..... 16

9 Coordination and timing ..... 19

Annex A (informative) General nomenclature systems ..... 21

Annex B (informative)Selectednano-object-specificnomenclaturesystems ..... 24

Annex C (informative) Selected public listings of nano-objects ..... 26

Bibliography ..... 36