

INTERNATIONAL  
STANDARD

ISO  
7027-1

First edition  
2016-06-15

---

---

---

**Water quality — Determination of  
turbidity —**

**Part 1:  
Quantitative methods**

*Qualité de l'eau — Détermination de la turbidité —  
Partie 1: Méthodes quantitatives*





## **COPYRIGHT PROTECTED DOCUMENT**

© ISO 2016, Published in Switzerland

All rights reserved. Unless otherwise specified, no part of this publication may be reproduced or utilized otherwise in any form or by any means, electronic or mechanical, including photocopying, or posting on the internet or an intranet, without prior written permission. Permission can be requested from either ISO at the address below or ISO's member body in the country of the requester.

ISO copyright office  
Ch. de Blandonnet 8 • CP 401  
CH-1214 Vernier, Geneva, Switzerland  
Tel. +41 22 749 01 11  
Fax +41 22 749 09 47  
[copyright@iso.org](mailto:copyright@iso.org)  
[www.iso.org](http://www.iso.org)

## Contents

	Page
<b>Foreword</b>	<b>iv</b>
<b>Introduction</b>	<b>v</b>
<b>1 Scope</b>	<b>1</b>
<b>2 Normative references</b>	<b>1</b>
<b>3 Terms and definitions</b>	<b>1</b>
<b>4 Sampling and samples</b>	<b>2</b>
<b>5 Quantitative methods of turbidity measurement using optical nephelometers and turbidimeters</b>	<b>2</b>
5.1 General principles	2
5.2 Reagents	3
5.3 Measurement of diffuse radiation (nephelometry)	5
5.3.1 Apparatus	5
5.3.2 Calibration	5
5.3.3 Procedure	5
5.3.4 Expression of results	5
5.3.5 Test report	5
5.4 Measurement of attenuated radiation (turbidimetry)	5
5.4.1 Apparatus	5
5.4.2 Calibration	6
5.4.3 Procedure	6
5.4.4 Expression of results	6
5.4.5 Test report	6
<b>Annex A (informative) Results of an interlaboratory collaborative trial to evaluate the suitability of a synthetic polymer for use as a secondary standard to formazin in turbidity measurements</b>	<b>7</b>
<b>Bibliography</b>	<b>9</b>