

## Certificate of Analysis

Product Name:

**Bromothymol blue ACS PurReagent**

Product No.: PSR49963  
Lot No.: Sample COA  
Brand: PureSynth  
CAS No.: 76-59-5  
Molecular Formula:  $C_{27}H_{28}Br_2O_5S$   
Molecular Weight: 624.38 g/mol  
Date of Mfg.: NA  
Date of Exp.: NA

Test	Specification	Result
Appearance	Light red to Red to Purple Solid	Purple Solid
Absorption maximum $\lambda$ 1 max. (buffer pH 5.8)	430-435 nm	433 nm
Absorption maximum $\lambda$ 2 max. (buffer pH 7.6)	615-618 nm	616 nm
Spec. Absorptivity A 1%/1cm (A 1 max.:0.005 g/l; buffer pH 5.8; calc. on dried substances)	260-305	280
Spec. Absorptivity A 1%/1cm (A 2 max: 0.005 g/l; buffer pH 7.6; calc. on dried substances)	455-530	510
Loss on drying	NMT 3.0 %	< 3.0 %
Transition range	pH 5.8 - pH 7.6	pH 6.6
Clarity of solution (1 g/l; ethanol)	Passes test	Passes test
Sensitivity test	Passes test	Passes test
Identification by $^1H$ NMR	Conforms to Structure	Conforms
Transition range (according to ACS)	Passes test	Passes test

The Certificate of Analysis (COA) is valid only for the lot specified and within the product's shelf life. Retesting is recommended after the expiry date or if storage conditions are compromised. We guarantee a proper quality within our General Conditions of Sales. The conditions are subject to change without prior notice.  
For queries on this COA, please contact our technical team at [technical@pure-synth.com](mailto:technical@pure-synth.com)

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**Remarks:**

This is to certify that the mentioned batch has been analysed at the time of quality release and has been found to be in compliance with prescribed specifications

The current Specification sheet may be available at [www.pure-synth.com](http://www.pure-synth.com)

Inspect on receipt

**Storage Condition:**

Store at room temperature and keep the container tightly closed

PureSynth Research Chemicals GmbH

*This is electronically-generated copy & is valid without a signature*

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