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DATASHEET

Bromophenol blue

Product overview

Name	Bromophenol blue
Cat No	HB0718
Alternative names	BPB
Biological description	pH indicator dye (pH 3.0 (yellow) - 4.6 (blue)) which is commonly used as a tracking dye in gel electrophoresis.
Biological action	Dyes & stains
Description	Tracking dye for gel electrophoresis

Solubility & Handling

Storage instructions	Room temperature
Solubility overview	Soluble in ethanol (10 mM)
Important	This product is for RESEARCH USE ONLY and is not intended for therapeutic or diagnostic use. Not for human or veterinary use

Chemical Data

Chemical name	4,4'-(1,1-Dioxido-3H-2,1-benzoxathiol-3-ylidene)bis[2,6-dibromo-phenol]
Molecular Weight	670
Molecular Formula	C ₁₉ H ₁₀ Br ₄ O ₅ S
CAS Number	115-39-9
PubChem identifier	8272
SMILES	<chem>C1=CC=C2C(=C1)C(OS2(=O)=O)(C3=CC(=C(C(=C3)Br)O)Br)C4=CC(=C(C(=C4)Br)O)Br</chem>
InChIKey	UDSAIICHUKSCKT-UHFFFAOYSA-N
MDL number	MFCD00005875
Appearance	Orange solid

References

Acid-base characteristics of bromophenol blue-citrate buffer systems in the amorphous state

Li J *et al* (2004) J Pharm Sci 93(3)

PubMedID [14762908](#)

Origin of the Absorption Band of Bromophenol Blue in Acidic and Basic pH: Insight from a Combined Molecular Dynamics and TD-DFT/MM Study

Chattopadhyaya M *et al* (2016) J Phys Chem A 120(36)

PubMedID [27556901](#)

Preferential solvation bromophenol blue in water-alcohol binary mixture

Dangui AZ *et al* (2018) Spectrochim Acta A Mol Biomol Spectrosc 203

PubMedID [29885632](#)

