

1. IDENTIFICATION

1.1 Product identifiers

Product name: 10X Reaction Buffer
Other name(s): XTB; TRIS-HCl, 1 M, pH 8.0
Product number: 04-XTB

1.2 Intended uses

Identified uses: Laboratory chemical for research use only.

1.3 Supplier information

Company: Integrated Micro-Chromatography Systems, Inc. (IMCS)
110 Centrum Drive
Irmo, SC 29063
Telephone: +1 (888) 560-2073
Website: www.imcstips.com

1.4 Emergency telephone number

Emergency Phone: VelocityEHS USA and Canada: +1 (800) 255-3924
VelocityEHS International: +1 (813) 248-0585
IMCS Technical Support: +1 (888) 560-2073

2. HAZARDS IDENTIFICATION

2.1 Classification of the substance or mixture

This product is not classified as a hazardous material.

2.2 Label Elements

No labeling applicable.

2.3 Other Hazards

Not applicable.

2.4 Unknown acute toxicity

Not applicable.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical characterization: Mixture Other name(s): XTB; TRIS-HCl

Product contains no substances at concentration levels considered to be hazardous to human health or the environment. Handle all chemicals with caution.

4. FIRST AID MEASURES

4.1 Description of first aid measures

General information: Consult physician if symptoms occur.
After inhalation: Supply fresh air; consult physician if symptoms occur.
After skin contact: Wash with soap and plenty of water.
After eye contact: Remove contact lenses and rinse opened eye for at least 15 minutes with running water.
After swallowing: Rinse mouth with water; consult physician if symptoms occur.

4.2 Most important symptoms and effects, both acute and delayed

None reasonably foreseeable.

4.3 Indication of any immediate medical attention and special treatment needed

If exposed or concerned, seek medical advice and attention. Treat symptomatically.

5. FIREFIGHTING MEASURES

5.1 Suitable extinguishing media

CO₂, dry chemical, foam, or water spray.

5.2 Unsuitable extinguishing media

No data available.

5.3 Specialized hazards arising from the substance or mixture:

Keep product and empty containers away from heat and sources of ignition.

Hazardous combustion products: Carbon oxides, nitrogen oxides, hydrogen chloride

5.4 Specialized protective equipment or precautions:

No special measures required. Exercise caution when fighting any chemical fire.

6. ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment, and emergency procedures

Ensure adequate ventilation. Wear protective clothing.

6.2 Environmental precautions

None required.

6.3 Methods and materials for containment and clean up

Absorb with suitable material (paper towels, etc.) and dispose of in accordance with section 13.

6.4 Reference to other sections

See section 7 for safe handling, section 8 for personal protection equipment, and section 13 for disposal information.

7. HANDLING AND STORAGE

7.1 Precautions for safe handling

Wash hands and other exposed areas with soap and water after handling. Handle in accordance with good laboratory practices and safety procedures.

7.2 Conditions for safe storage, including any incompatibilities

Store tightly closed and upright in a cool, dry place. Recommended storage temperature is 2-30 °C.

Incompatible materials: Strong oxidizers.

7.3 Specific end use(s)

For research use only.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 Exposure guidelines

Contains no substances with occupational exposure limit values.

8.2 Engineering controls

Wear personal protective equipment. Ensure adequate ventilation, especially in confined areas.

8.3 Protective equipment and hygiene

Breathing equipment: Not required

Skin protection: Chemical-resistant gloves, protective clothing

Eye protection: Safety glasses or goggles.

Hygiene: Wash hands and exposed skin thoroughly with soap and water after handling.

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical state:	Liquid
Appearance:	Colorless
Odor:	Odorless
Odor threshold:	Not established
pH:	8.0
Melting point/range:	No data available
Freezing point/range:	No data available
Boiling point/range:	No data available
Flash point:	No data available
Evaporation rate:	No data available
Flammability (solid, gas):	Not applicable
Upper flammability or explosive limits:	No data available
Lower flammability or explosive limits:	No data available
Vapor pressure:	No data available
Vapor density:	No data available
Relative density:	No data available
Solubility:	No data available
Partition coefficient: n-octanol/water:	No data available
Auto-ignition temperature:	No data available
Decomposition temperature:	No data available
Viscosity:	No data available

10. STABILITY AND REACTIVITY

10.1 Reactivity: Hazardous reactions will not occur under normal conditions.

10.2 Chemical stability: Stable under recommended handling and storage conditions (see section 7).

10.3 Possibility of hazardous reactions: None expected under normal use.

10.4 Conditions to avoid: Incompatible materials.

10.5 Incompatible materials: Strong oxidizers.

10.6 Hazardous decomposition products: Carbon oxides, nitrogen oxides, hydrogen chloride.

11. TOXICOLOGICAL INFORMATION

11.1 Acute toxicity

Not classified

11.2 Primary irritant effect

On the skin: None known.

On the eye: None known.

Sensitization: No data available.

11.3 Additional toxicological information

No additional toxicological information available.

11.4 Carcinogenicity

Not applicable.

12. ECOLOGICAL INFORMATION

12.1 Ecotoxicity

Aquatic toxicity: Not classified.

Persistence and degradability: Not established.

Bio accumulative potential: Not established.

Mobility in soil: No data available.

12.2 Additional ecological information

General notes: Contains no substances in concentrations known to be hazardous to the environment or not degradable in a wastewater treatment plant.

Other adverse effects: No further relevant information available.

13. DISPOSAL CONSIDERATIONS

Recommendation: Soak up and discard. Dispose of in accordance with local, state, and federal regulations.

14. TRANSPORT INFORMATION

Not regulated for transport.

15. REGULATORY INFORMATION

15.1 Safety, health, and environmental regulations/legislation specific for the substance or mixture

SARA (Superfund Amendments and Reauthorization Act of 1986 - USA): Not regulated by SARA

TSCA (Toxic Substance Control Act) Active Listing: 1185-53-1 1,3-propanediol, 2-amino-2-(hydroxymethyl)-, hydrochloride (TRIS-HCl); 7732-18-5 water

15.2 State regulations

1,3-propanediol, 2-amino-2-(hydroxymethyl)-, hydrochloride (TRIS-HCl) (1185-53-1)

Pennsylvania – Right to Know List

16. OTHER INFORMATION

The information in this document is based on the present state of knowledge and is applicable to the product with regard to appropriate safety precautions. It does not represent any guarantee of the properties of the product.

IMCS, Inc and its affiliates shall not be held liable for any damage resulting from handling or from contact with the above product.

Date of Last Revision: 09/14/2022