

MERCURY IS A LIQUID AT ROOM TEMPERATURE PHYSICAL OR CHEMICAL

MERCURY IS A LIQUID AT ROOM TEMPERATURE PHYSICAL OR CHEMICAL IS A QUESTION THAT OFTEN ARISES IN THE STUDY OF CHEMISTRY AND PHYSICS DUE TO MERCURY'S UNIQUE AND FASCINATING PROPERTIES. MERCURY IS ONE OF THE FEW ELEMENTS THAT REMAINS LIQUID AT ROOM TEMPERATURE, DISTINGUISHING IT FROM MOST OTHER METALS, WHICH ARE SOLID UNDER THE SAME CONDITIONS. UNDERSTANDING WHETHER THIS LIQUID STATE IS A RESULT OF A PHYSICAL PROPERTY OR A CHEMICAL CHANGE IS CRUCIAL FOR COMPREHENDING ELEMENTAL BEHAVIOR AND PHASE TRANSITIONS. THIS ARTICLE WILL EXPLORE THE NATURE OF MERCURY'S LIQUID STATE, DISCUSS PHYSICAL VERSUS CHEMICAL CHANGES, AND PROVIDE DETAILED INSIGHTS INTO MERCURY'S ATOMIC STRUCTURE AND BONDING THAT EXPLAIN THIS PHENOMENON. FURTHERMORE, THE ARTICLE WILL ADDRESS COMMON MISCONCEPTIONS AND CLARIFY THE SCIENTIFIC PRINCIPLES BEHIND MERCURY'S STATE AT ROOM TEMPERATURE. FINALLY, THE IMPLICATIONS OF MERCURY'S LIQUID STATE IN VARIOUS APPLICATIONS WILL BE EXAMINED. THE FOLLOWING SECTIONS WILL GUIDE THE READER THROUGH THESE TOPICS STEP-BY-STEP.

- UNDERSTANDING MERCURY'S LIQUID STATE
- PHYSICAL PROPERTIES OF MERCURY
- CHEMICAL PROPERTIES OF MERCURY
- DISTINGUISHING PHYSICAL AND CHEMICAL CHANGES
- ATOMIC STRUCTURE AND BONDING INFLUENCING MERCURY'S STATE
- APPLICATIONS AND IMPLICATIONS OF MERCURY'S LIQUID FORM

UNDERSTANDING MERCURY'S LIQUID STATE

MERCURY IS WELL-KNOWN FOR BEING LIQUID AT ROOM TEMPERATURE, WITH A MELTING POINT OF APPROXIMATELY -38.83 DEGREES CELSIUS (-37.89 DEGREES FAHRENHEIT). THIS PROPERTY IS UNUSUAL AMONG METALS, AS MOST METALS HAVE MUCH HIGHER MELTING POINTS AND ARE SOLID UNDER NORMAL AMBIENT CONDITIONS. THE LIQUID STATE OF MERCURY AT ROOM TEMPERATURE IS A FUNDAMENTAL PHYSICAL CHARACTERISTIC RATHER THAN A CHEMICAL TRANSFORMATION. THIS DISTINCTION IS VITAL IN THE FIELD OF MATERIAL SCIENCE AND CHEMISTRY FOR CATEGORIZING CHANGES SUBSTANCES UNDERGO.

WHAT DOES IT MEAN TO BE LIQUID AT ROOM TEMPERATURE?

BEING LIQUID AT ROOM TEMPERATURE MEANS THAT MERCURY EXISTS IN A FLUID STATE AT AROUND $20-25$ DEGREES CELSIUS WITHOUT UNDERGOING ANY CHEMICAL REACTION OR ALTERATION IN ITS CHEMICAL COMPOSITION. THE ATOMS IN MERCURY ARE NOT CHEMICALLY ALTERED; INSTEAD, THEY ARE PHYSICALLY ARRANGED IN A WAY THAT ALLOWS FOR FREE MOVEMENT, RESULTING IN A LIQUID FORM. THIS IS A REVERSIBLE STATE CHANGE DEPENDING ON TEMPERATURE AND PRESSURE CONDITIONS.

COMPARISON WITH OTHER ELEMENTS

ONLY A FEW ELEMENTS, SUCH AS BROMINE AND GALLIUM, SHARE THIS UNCOMMON TRAIT OF BEING LIQUID NEAR ROOM TEMPERATURE. THE UNIQUE ELECTRON CONFIGURATION AND ATOMIC INTERACTIONS OF MERCURY CONTRIBUTE TO ITS LOW MELTING POINT, SETTING IT APART FROM OTHER METALS AND ELEMENTS THAT ARE SOLID UNDER IDENTICAL CONDITIONS.

PHYSICAL PROPERTIES OF MERCURY

MERCURY'S PHYSICAL PROPERTIES EXPLAIN WHY IT REMAINS LIQUID AT ROOM TEMPERATURE. THESE PROPERTIES INCLUDE MELTING POINT, BOILING POINT, DENSITY, AND ATOMIC STRUCTURE. UNDERSTANDING THESE CHARACTERISTICS HELPS CLARIFY THE NATURE OF MERCURY'S LIQUID STATE.

MELTING AND BOILING POINTS

MERCURY MELTS AT -38.83°C AND BOILS AT 356.73°C . THESE VALUES HIGHLIGHT THAT MERCURY TRANSITIONS FROM SOLID TO LIQUID AND THEN TO GAS WITHIN A TEMPERATURE RANGE THAT INCLUDES ROOM TEMPERATURE. BECAUSE ROOM TEMPERATURE GENERALLY FALLS BETWEEN 20°C AND 25°C , MERCURY NATURALLY EXISTS AS A LIQUID UNDER STANDARD CONDITIONS.

DENSITY AND SURFACE TENSION

MERCURY IS VERY DENSE, WITH A DENSITY OF 13.534 g/cm^3 AT ROOM TEMPERATURE, MAKING IT MUCH HEAVIER THAN WATER. IT ALSO EXHIBITS HIGH SURFACE TENSION, WHICH CAUSES IT TO FORM ROUNDED DROPLETS RATHER THAN SPREADING OUT. THESE PHYSICAL TRAITS ARE CONSEQUENCES OF THE STRONG COHESIVE FORCES BETWEEN MERCURY ATOMS, YET THESE FORCES ARE NOT SUFFICIENT TO MAINTAIN A SOLID LATTICE AT ROOM TEMPERATURE.

PHYSICAL STATE VS. CHEMICAL COMPOSITION

THE LIQUID STATE OF MERCURY IS A PHYSICAL PROPERTY, MEANING MERCURY'S CHEMICAL COMPOSITION (Hg) REMAINS UNCHANGED. THE ATOMS ARE THE SAME; ONLY THEIR ARRANGEMENT AND ENERGY STATE DIFFER FROM SOLID TO LIQUID. THUS, MERCURY'S LIQUIDITY AT ROOM TEMPERATURE IS A CLASSIC EXAMPLE OF A PHYSICAL CHANGE RELATED TO PHASE STATE RATHER THAN A CHEMICAL REACTION.

CHEMICAL PROPERTIES OF MERCURY

WHILE MERCURY'S LIQUIDITY IS A PHYSICAL CHARACTERISTIC, IT ALSO POSSESSES DISTINCTIVE CHEMICAL PROPERTIES THAT INFLUENCE ITS APPLICATIONS AND BEHAVIOR. CHEMICAL PROPERTIES DESCRIBE HOW MERCURY INTERACTS WITH OTHER SUBSTANCES, INCLUDING REACTIVITY, OXIDATION, AND COMPOUND FORMATION.

REACTIVITY AND COMPOUNDS

MERCURY IS RELATIVELY UNREACTIVE COMPARED TO OTHER METALS, WHICH IS WHY IT REMAINS STABLE IN ITS ELEMENTAL FORM UNDER NORMAL CONDITIONS. IT CAN FORM COMPOUNDS SUCH AS MERCURIC CHLORIDE (HgCl_2) AND MERCUROUS CHLORIDE (Hg_2Cl_2), WHICH OCCUR THROUGH CHEMICAL REACTIONS INVOLVING MERCURY ATOMS BONDING WITH OTHER ELEMENTS.

CHEMICAL CHANGES VS. PHYSICAL STATES

IT IS IMPORTANT TO DISTINGUISH THAT CHEMICAL CHANGES INVOLVE THE FORMATION OR BREAKING OF CHEMICAL BONDS, RESULTING IN NEW SUBSTANCES. MERCURY'S LIQUID STATE AT ROOM TEMPERATURE DOES NOT INVOLVE SUCH CHANGES; IT IS SIMPLY A MATTER OF THE PHYSICAL ARRANGEMENT OF MERCURY ATOMS. CHEMICAL PROPERTIES BECOME RELEVANT WHEN MERCURY REACTS WITH OTHER ELEMENTS OR COMPOUNDS, NOT WHEN IT CHANGES PHASE FROM SOLID TO LIQUID.

DISTINGUISHING PHYSICAL AND CHEMICAL CHANGES

THE DISTINCTION BETWEEN PHYSICAL AND CHEMICAL CHANGES IS FUNDAMENTAL TO UNDERSTANDING THE QUESTION: MERCURY IS A LIQUID AT ROOM TEMPERATURE PHYSICAL OR CHEMICAL? THIS SECTION CLARIFIES THESE CONCEPTS WITH EXAMPLES AND DEFINITIONS.

DEFINITION OF PHYSICAL CHANGE

A PHYSICAL CHANGE AFFECTS THE FORM OR PHYSICAL PROPERTIES OF A SUBSTANCE WITHOUT ALTERING ITS CHEMICAL COMPOSITION. EXAMPLES INCLUDE MELTING, FREEZING, EVAPORATION, AND CONDENSATION. MERCURY'S LIQUID STATE IS A PRIME EXAMPLE OF A PHYSICAL CHANGE BECAUSE IT INVOLVES A CHANGE IN PHASE WITHOUT PRODUCING A NEW SUBSTANCE.

DEFINITION OF CHEMICAL CHANGE

A CHEMICAL CHANGE RESULTS IN THE FORMATION OF ONE OR MORE NEW SUBSTANCES WITH DIFFERENT CHEMICAL PROPERTIES. THIS INVOLVES BREAKING AND FORMING CHEMICAL BONDS. EXAMPLES INCLUDE RUSTING, BURNING, AND CHEMICAL REACTIONS PRODUCING NEW COMPOUNDS. MERCURY'S TRANSITION TO LIQUID DOES NOT QUALIFY AS A CHEMICAL CHANGE.

SIGNS AND EXAMPLES

- **PHYSICAL CHANGE:** CHANGE IN STATE (SOLID TO LIQUID), SHAPE, OR SIZE WITHOUT ALTERING CHEMICAL IDENTITY.
- **CHEMICAL CHANGE:** COLOR CHANGE, GAS PRODUCTION, FORMATION OF PRECIPITATE, OR ENERGY CHANGE DUE TO BOND FORMATION OR BREAKAGE.
- MERCURY MELTING AT ROOM TEMPERATURE SHOWS NONE OF THE CHEMICAL CHANGE SIGNS; IT REMAINS Hg ATOMS IN A DIFFERENT PHYSICAL STATE.

ATOMIC STRUCTURE AND BONDING INFLUENCING MERCURY'S STATE

THE ATOMIC STRUCTURE AND ELECTRON CONFIGURATION OF MERCURY ARE CRITICAL TO UNDERSTANDING WHY IT IS LIQUID AT ROOM TEMPERATURE. THESE FACTORS INFLUENCE THE STRENGTH OF METALLIC BONDS AND THE ENERGY REQUIRED FOR PHASE TRANSITIONS.

ELECTRON CONFIGURATION OF MERCURY

MERCURY HAS THE ELECTRON CONFIGURATION $[\text{Xe}] 4f^{14} 5d^{10} 6s^2$. THE FILLED D-SUBSHELL AND HIGH NUCLEAR CHARGE RESULT IN RELATIVISTIC EFFECTS THAT CAUSE THE 6S ELECTRONS TO BE HELD MORE TIGHTLY. THIS REDUCES THE OVERLAP OF ORBITALS BETWEEN ATOMS, WEAKENING METALLIC BONDING COMPARED TO OTHER METALS.

WEAK METALLIC BONDING

THE RELATIVELY WEAK METALLIC BONDS IN MERCURY ATOMS LEAD TO A LOW MELTING POINT. BECAUSE THE ATOMS DO NOT FORM STRONG BONDS IN THE SOLID STATE, LESS ENERGY IS NEEDED TO OVERCOME THESE INTERACTIONS AND TRANSITION INTO THE LIQUID PHASE AT ROOM TEMPERATURE.

RELATIVISTIC EFFECTS

RELATIVISTIC EFFECTS REFER TO CHANGES IN ELECTRON BEHAVIOR DUE TO MERCURY'S HIGH ATOMIC NUMBER. THESE EFFECTS CAUSE CONTRACTION OF THE S ORBITAL, WHICH DIMINISHES BONDING STRENGTH AND CONTRIBUTES TO MERCURY'S LOW MELTING POINT, REINFORCING WHY MERCURY REMAINS LIQUID AT ROOM TEMPERATURE.

APPLICATIONS AND IMPLICATIONS OF MERCURY'S LIQUID FORM

MERCURY'S LIQUID STATE AT ROOM TEMPERATURE HAS SIGNIFICANT PRACTICAL APPLICATIONS AND IMPLICATIONS IN SCIENCE, INDUSTRY, AND HEALTH. UNDERSTANDING THIS PHYSICAL PROPERTY HELPS EXPLAIN ITS USE AND HANDLING PRECAUTIONS.

USES OF LIQUID MERCURY

MERCURY HAS BEEN HISTORICALLY USED IN THERMOMETERS, BAROMETERS, ELECTRICAL SWITCHES, AND FLUORESCENT LIGHTING DUE TO ITS CONDUCTIVITY AND LIQUID STATE. ITS ABILITY TO REMAIN LIQUID OVER A WIDE TEMPERATURE RANGE ALLOWS FOR PRECISE MEASUREMENTS AND RELIABLE PERFORMANCE.

HEALTH AND ENVIRONMENTAL CONCERNS

DESPITE ITS USEFUL PROPERTIES, MERCURY IS TOXIC AND POSES ENVIRONMENTAL HAZARDS. ITS LIQUID STATE FACILITATES VAPORIZATION, WHICH CAN LEAD TO INHALATION RISKS. PROPER HANDLING AND DISPOSAL ARE ESSENTIAL TO MINIMIZE EXPOSURE AND CONTAMINATION.

ALTERNATIVES TO MERCURY

DUE TO TOXICITY CONCERNS, ALTERNATIVES SUCH AS ALCOHOL OR DIGITAL SENSORS HAVE REPLACED MERCURY IN MANY APPLICATIONS. UNDERSTANDING THAT MERCURY'S LIQUID STATE IS A PHYSICAL PROPERTY HELPS RESEARCHERS DEVELOP SUBSTITUTES THAT EMULATE ITS BENEFICIAL PHYSICAL CHARACTERISTICS WITHOUT CHEMICAL RISKS.

SUMMARY OF MERCURY'S LIQUID STATE CHARACTERISTICS

- MERCURY IS LIQUID AT ROOM TEMPERATURE DUE TO ITS LOW MELTING POINT, A PHYSICAL PROPERTY.
- THE LIQUID STATE DOES NOT INVOLVE A CHEMICAL CHANGE OR ALTERATION IN MERCURY'S ELEMENTAL COMPOSITION.
- ATOMIC STRUCTURE AND RELATIVISTIC EFFECTS WEAKEN METALLIC BONDING, ENABLING LIQUIDITY.
- MERCURY'S PHYSICAL PROPERTIES UNDERPIN ITS APPLICATIONS AND SAFETY CONSIDERATIONS.

FREQUENTLY ASKED QUESTIONS

IS MERCURY A LIQUID AT ROOM TEMPERATURE DUE TO A PHYSICAL OR CHEMICAL PROPERTY?

MERCURY BEING A LIQUID AT ROOM TEMPERATURE IS A PHYSICAL PROPERTY, AS IT DESCRIBES ITS STATE OF MATTER UNDER

SPECIFIC CONDITIONS WITHOUT CHANGING ITS CHEMICAL COMPOSITION.

WHAT DOES IT MEAN THAT MERCURY IS LIQUID AT ROOM TEMPERATURE FROM A PHYSICAL STANDPOINT?

FROM A PHYSICAL STANDPOINT, MERCURY BEING LIQUID AT ROOM TEMPERATURE MEANS IT HAS A MELTING POINT BELOW ROOM TEMPERATURE, ALLOWING IT TO EXIST IN LIQUID FORM WITHOUT UNDERGOING ANY CHEMICAL CHANGE.

DOES MERCURY'S LIQUID STATE AT ROOM TEMPERATURE INDICATE A CHEMICAL REACTION?

NO, MERCURY'S LIQUID STATE AT ROOM TEMPERATURE DOES NOT INDICATE A CHEMICAL REACTION; IT IS PURELY A PHYSICAL CHARACTERISTIC OF THE ELEMENT.

WHY IS MERCURY UNIQUE AMONG METALS FOR BEING LIQUID AT ROOM TEMPERATURE?

MERCURY IS UNIQUE AMONG METALS BECAUSE IT HAS A VERY LOW MELTING POINT (-38.83°C), SO IT REMAINS LIQUID AT ROOM TEMPERATURE DUE TO ITS PHYSICAL PROPERTIES RATHER THAN CHEMICAL CHANGES.

CAN MERCURY CHANGE FROM LIQUID TO SOLID WITHOUT A CHEMICAL CHANGE?

YES, MERCURY CAN CHANGE FROM LIQUID TO SOLID THROUGH COOLING, WHICH IS A PHYSICAL CHANGE, NOT A CHEMICAL ONE.

IS THE LIQUIDITY OF MERCURY AT ROOM TEMPERATURE CONSIDERED A PHYSICAL OR CHEMICAL CHANGE WHEN HEATED?

THE LIQUIDITY OF MERCURY AT ROOM TEMPERATURE INVOLVES PHYSICAL CHANGES WHEN HEATED OR COOLED, SUCH AS MELTING OR FREEZING, WITHOUT ALTERING ITS CHEMICAL NATURE.

HOW DOES MERCURY'S PHYSICAL STATE AT ROOM TEMPERATURE AFFECT ITS CHEMICAL PROPERTIES?

MERCURY'S PHYSICAL STATE AS A LIQUID AT ROOM TEMPERATURE DOES NOT AFFECT ITS CHEMICAL PROPERTIES; IT REMAINS THE SAME ELEMENT WITH CONSISTENT CHEMICAL BEHAVIOR.

DOES MERCURY'S LIQUID STATE MEAN IT HAS UNDERGONE A CHEMICAL TRANSFORMATION?

NO, MERCURY BEING LIQUID AT ROOM TEMPERATURE SIMPLY REFLECTS ITS PHYSICAL STATE AND DOES NOT MEAN IT HAS UNDERGONE ANY CHEMICAL TRANSFORMATION.

IS THE FACT THAT MERCURY IS LIQUID AT ROOM TEMPERATURE USED TO IDENTIFY IT PHYSICALLY OR CHEMICALLY?

THE FACT THAT MERCURY IS LIQUID AT ROOM TEMPERATURE IS USED AS A PHYSICAL PROPERTY TO IDENTIFY THE ELEMENT, NOT A CHEMICAL PROPERTY.

ADDITIONAL RESOURCES

1. *MERCURY: THE UNIQUE LIQUID METAL*

THIS BOOK EXPLORES THE PHYSICAL AND CHEMICAL PROPERTIES OF MERCURY, EMPHASIZING ITS UNUSUAL STATE AS A LIQUID AT

ROOM TEMPERATURE. IT DELVES INTO THE ATOMIC STRUCTURE AND BONDING THAT CONTRIBUTE TO ITS HIGH DENSITY AND SURFACE TENSION. READERS WILL GAIN INSIGHT INTO WHY MERCURY BEHAVES DIFFERENTLY FROM MOST METALS, ALONGSIDE ITS PRACTICAL APPLICATIONS AND HAZARDS.

2. THE CHEMISTRY OF MERCURY AND ITS COMPOUNDS

FOCUSING ON THE CHEMICAL BEHAVIOR OF MERCURY, THIS BOOK COVERS ITS VARIOUS OXIDATION STATES, COMPOUND FORMATION, AND REACTIONS WITH OTHER ELEMENTS. IT EXPLAINS MERCURY'S ROLE IN INDUSTRIAL PROCESSES AND ENVIRONMENTAL IMPACT. THE DETAILED ANALYSIS INCLUDES MERCURY'S TOXICITY AND METHODS FOR SAFE HANDLING AND DISPOSAL.

3. PHYSICAL PROPERTIES OF LIQUIDS: CASE STUDY OF MERCURY

THIS VOLUME EXAMINES THE GENERAL PHYSICAL PROPERTIES OF LIQUIDS WITH MERCURY AS A PRIMARY CASE STUDY. TOPICS INCLUDE VISCOSITY, DENSITY, SURFACE TENSION, AND THERMAL CONDUCTIVITY. THE BOOK HIGHLIGHTS HOW MERCURY'S UNIQUE CHARACTERISTICS INFLUENCE ITS USE IN THERMOMETERS, BAROMETERS, AND SCIENTIFIC INSTRUMENTS.

4. MERCURY IN SCIENCE AND TECHNOLOGY

A COMPREHENSIVE GUIDE TO THE USE OF MERCURY IN VARIOUS SCIENTIFIC AND TECHNOLOGICAL FIELDS. IT COVERS MERCURY'S PHYSICAL STATE AT ROOM TEMPERATURE AND ITS IMPLICATIONS FOR CONDUCTIVITY AND MAGNETISM. THE BOOK ALSO DISCUSSES RECENT ADVANCEMENTS IN MERCURY-FREE ALTERNATIVES AND REGULATORY MEASURES.

5. ATOMIC STRUCTURE AND METALLIC BONDING: UNDERSTANDING MERCURY

THIS TEXT FOCUSES ON THE ATOMIC AND ELECTRONIC STRUCTURE OF MERCURY THAT LEADS TO ITS LIQUID STATE AT ROOM TEMPERATURE. IT EXPLAINS METALLIC BONDING CONCEPTS AND RELATIVISTIC EFFECTS THAT ALTER MERCURY'S BEHAVIOR COMPARED TO OTHER METALS. THE BOOK OFFERS A DETAILED THEORETICAL FRAMEWORK USEFUL FOR STUDENTS AND RESEARCHERS.

6. ENVIRONMENTAL AND HEALTH EFFECTS OF MERCURY EXPOSURE

WHILE PRIMARILY ADDRESSING MERCURY'S TOXICITY, THIS BOOK LINKS MERCURY'S PHYSICAL PROPERTIES TO ITS ENVIRONMENTAL MOBILITY AND BIOACCUMULATION. IT INCLUDES CASE STUDIES ON MERCURY CONTAMINATION IN WATER AND SOIL. READERS WILL LEARN ABOUT THE CHEMICAL TRANSFORMATIONS MERCURY UNDERGOES IN NATURE AND THEIR HEALTH IMPLICATIONS.

7. MERCURY: FROM ALCHEMY TO MODERN CHEMISTRY

TRACING THE HISTORICAL SIGNIFICANCE OF MERCURY, THIS BOOK CONNECTS ANCIENT ALCHEMICAL PRACTICES WITH MODERN CHEMICAL UNDERSTANDING. IT HIGHLIGHTS MERCURY'S UNIQUE LIQUID STATE AND ITS INFLUENCE ON SCIENTIFIC DISCOVERIES. THE NARRATIVE ALSO COVERS THE EVOLUTION OF MERCURY'S ROLE IN MEDICINE, INDUSTRY, AND RESEARCH.

8. MATERIALS SCIENCE OF LIQUID METALS: THE CASE OF MERCURY

THIS BOOK EXPLORES MERCURY FROM A MATERIALS SCIENCE PERSPECTIVE, FOCUSING ON ITS STRUCTURE, PHASE BEHAVIOR, AND SURFACE PHENOMENA. IT DISCUSSES EXPERIMENTAL TECHNIQUES USED TO STUDY LIQUID METALS AND THE CHALLENGES MERCURY PRESENTS DUE TO ITS TOXICITY AND VOLATILITY. APPLICATIONS IN SENSORS AND ELECTRONICS ARE ALSO REVIEWED.

9. THERMODYNAMICS AND PHASE TRANSITIONS OF MERCURY

AN IN-DEPTH ANALYSIS OF MERCURY'S THERMODYNAMIC PROPERTIES AND PHASE TRANSITIONS, INCLUDING ITS MELTING AND BOILING POINTS. THE BOOK EXPLAINS WHY MERCURY REMAINS LIQUID AT ROOM TEMPERATURE FROM A THERMODYNAMIC STANDPOINT. IT ALSO EXPLORES HOW PRESSURE AND TEMPERATURE VARIATIONS AFFECT MERCURY'S PHYSICAL STATE.

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