

WHAT IS LATENT HEAT PHYSICS

HERE'S A COMPREHENSIVE ARTICLE ON LATENT HEAT IN PHYSICS.

WHAT IS LATENT HEAT PHYSICS: UNDERSTANDING THE HIDDEN ENERGY OF PHASE TRANSITIONS

WHAT IS LATENT HEAT PHYSICS IS A FUNDAMENTAL CONCEPT THAT EXPLAINS THE ENERGY ABSORBED OR RELEASED DURING A CHANGE OF STATE WITHOUT A CORRESPONDING CHANGE IN TEMPERATURE. THINK ABOUT ICE MELTING INTO WATER, OR WATER BOILING INTO STEAM – THESE TRANSFORMATIONS DON'T HAPPEN INSTANTANEOUSLY AT A SINGLE DEGREE. INSTEAD, THEY INVOLVE A HIDDEN ENERGY TRANSFER, A CONCEPT CRUCIAL FOR UNDERSTANDING EVERYTHING FROM WEATHER PATTERNS TO INDUSTRIAL PROCESSES. THIS ARTICLE WILL DELVE DEEP INTO THE INTRICACIES OF LATENT HEAT, EXPLORING ITS TYPES, THE SCIENCE BEHIND IT, ITS REAL-WORLD APPLICATIONS, AND WHY IT'S SO MUCH MORE THAN JUST "HEAT." WE'LL UNCOVER THE FASCINATING HIDDEN ENERGY THAT DRIVES PHASE CHANGES, MAKING OUR WORLD DYNAMIC AND PREDICTABLE.

TABLE OF CONTENTS

UNDERSTANDING LATENT HEAT

THE SCIENCE BEHIND LATENT HEAT

TYPES OF LATENT HEAT

LATENT HEAT OF FUSION

LATENT HEAT OF VAPORIZATION

LATENT HEAT OF SUBLIMATION

FACTORS AFFECTING LATENT HEAT

CALCULATING LATENT HEAT

REAL-WORLD APPLICATIONS OF LATENT HEAT

LATENT HEAT IN METEOROLOGY

LATENT HEAT IN REFRIGERATION AND AIR CONDITIONING

LATENT HEAT IN INDUSTRIAL PROCESSES

THE IMPORTANCE OF LATENT HEAT IN EVERYDAY LIFE

UNDERSTANDING LATENT HEAT

WHEN WE TALK ABOUT HEAT IN EVERYDAY TERMS, WE OFTEN ASSOCIATE IT WITH A RISE IN TEMPERATURE. IF YOU ADD HEAT TO WATER, ITS TEMPERATURE GOES UP, RIGHT? WELL, NOT ALWAYS. SOMETIMES, ADDING HEAT DOESN'T CHANGE THE TEMPERATURE AT ALL. THIS IS WHERE THE CONCEPT OF LATENT HEAT COMES INTO PLAY. LATENT HEAT, DERIVED FROM THE LATIN WORD "LATERE" MEANING "TO LIE HIDDEN," IS PRECISELY THIS INVISIBLE ENERGY. IT'S THE ENERGY THAT A SUBSTANCE EITHER ABSORBS OR RELEASES TO CHANGE ITS STATE – FROM SOLID TO LIQUID, LIQUID TO GAS, OR VICE VERSA – WITHOUT ALTERING ITS TEMPERATURE. THIS HIDDEN ENERGY IS ABSOLUTELY CRITICAL FOR UNDERSTANDING MANY NATURAL PHENOMENA AND TECHNOLOGICAL ADVANCEMENTS.

IMAGINE A BLOCK OF ICE AT 0 DEGREES CELSIUS. YOU START ADDING HEAT TO IT. WILL ITS TEMPERATURE IMMEDIATELY JUMP TO, SAY, 10 DEGREES CELSIUS? NO. THE ADDED HEAT IS USED ENTIRELY TO BREAK THE BONDS HOLDING THE WATER MOLECULES IN A RIGID, SOLID STRUCTURE, TRANSFORMING THE ICE INTO LIQUID WATER. ONLY ONCE ALL THE ICE HAS MELTED WILL THE WATER'S TEMPERATURE BEGIN TO RISE IF YOU CONTINUE TO ADD HEAT. THIS ENERGY ABSORBED DURING MELTING IS A PRIME EXAMPLE OF LATENT HEAT. SIMILARLY, WHEN WATER BOILS AT 100 DEGREES CELSIUS, THE HEAT ADDED ISN'T MAKING THE WATER HOTTER; IT'S BEING USED TO OVERCOME THE INTERMOLECULAR FORCES AND CONVERT THE LIQUID WATER INTO GASEOUS STEAM.

THE SCIENCE BEHIND LATENT HEAT

AT A MOLECULAR LEVEL, LATENT HEAT IS ALL ABOUT THE ENERGY STORED WITHIN THE BONDS BETWEEN ATOMS AND MOLECULES. IN A SOLID, MOLECULES ARE TIGHTLY PACKED AND HELD IN FIXED POSITIONS BY STRONG INTERMOLECULAR FORCES. THEY VIBRATE, BUT THEY DON'T MOVE FREELY. WHEN HEAT ENERGY IS SUPPLIED, IT INCREASES THE KINETIC ENERGY OF THESE

MOLECULES, CAUSING THEM TO VIBRATE MORE VIGOROUSLY. HOWEVER, DURING A PHASE CHANGE LIKE MELTING, THIS ADDED ENERGY ISN'T PRIMARILY USED TO INCREASE THE SPEED OF VIBRATIONS (WHICH WOULD RAISE TEMPERATURE). INSTEAD, IT'S ABSORBED TO DO WORK – TO OVERCOME THE ATTRACTIVE FORCES HOLDING THE MOLECULES IN THEIR FIXED POSITIONS AND ALLOW THEM TO MOVE MORE FREELY, TRANSITIONING INTO A LIQUID STATE.

ONCE THE SUBSTANCE IS IN A MORE FLUID STATE, LIKE A LIQUID, FURTHER ADDITION OF HEAT ENERGY CAN INCREASE THE KINETIC ENERGY OF ITS MOLECULES, LEADING TO A RISE IN TEMPERATURE. HOWEVER, WHEN THE LIQUID REACHES ITS BOILING POINT, THE PROCESS REPEATS ITSELF IN A SENSE. THE HEAT ENERGY SUPPLIED IS AGAIN USED NOT TO INCREASE THE KINETIC ENERGY OF THE MOLECULES (AND THUS TEMPERATURE) BUT TO BREAK FREE FROM THE INTERMOLECULAR FORCES THAT KEEP THEM RELATIVELY CLOSE TOGETHER IN THE LIQUID. THIS ENERGY ALLOWS THE MOLECULES TO ESCAPE INTO THE GASEOUS PHASE, WHERE THEY ARE MUCH FARTHER APART AND MOVE RANDOMLY WITH HIGH SPEEDS. THIS ENERGY ABSORPTION OR RELEASE WITHOUT A TEMPERATURE CHANGE IS THE HALLMARK OF LATENT HEAT.

TYPES OF LATENT HEAT

LATENT HEAT ISN'T A MONOLITHIC CONCEPT; IT MANIFESTS IN DIFFERENT FORMS DEPENDING ON THE SPECIFIC PHASE TRANSITION OCCURRING. THE MOST COMMONLY DISCUSSED TYPES RELATE TO THE TRANSITIONS BETWEEN SOLID, LIQUID, AND GAS. UNDERSTANDING THESE DISTINCTIONS IS KEY TO APPRECIATING THE DIVERSE ROLES LATENT HEAT PLAYS IN PHYSICS AND THE WORLD AROUND US. EACH TYPE REPRESENTS A SPECIFIC AMOUNT OF ENERGY REQUIRED FOR A PARTICULAR CHANGE OF STATE UNDER CONSTANT PRESSURE.

LATENT HEAT OF FUSION

THE LATENT HEAT OF FUSION, ALSO KNOWN AS THE ENTHALPY OF FUSION, IS THE AMOUNT OF HEAT ENERGY REQUIRED TO CHANGE A UNIT MASS OF A SUBSTANCE FROM A SOLID STATE TO A LIQUID STATE AT ITS MELTING POINT, OR CONVERSELY, THE ENERGY RELEASED WHEN A UNIT MASS CHANGES FROM LIQUID TO SOLID AT ITS FREEZING POINT. FOR WATER, THIS VALUE IS APPROXIMATELY 334 KILOJOULES PER KILOGRAM (kJ/kg) AT 0 DEGREES CELSIUS. THIS MEANS THAT 334 KILOJOULES OF ENERGY MUST BE ABSORBED BY ONE KILOGRAM OF ICE AT 0°C TO TRANSFORM IT ENTIRELY INTO WATER AT 0°C. CONVERSELY, WHEN ONE KILOGRAM OF WATER AT 0°C FREEZES INTO ICE AT 0°C, IT RELEASES THE SAME AMOUNT OF LATENT HEAT INTO ITS SURROUNDINGS. THIS PROCESS IS FUNDAMENTAL TO UNDERSTANDING HOW ICE MELTS AND FREEZES, INFLUENCING LOCAL TEMPERATURES AND EVEN GEOLOGICAL PROCESSES OVER VAST TIMESCALES.

LATENT HEAT OF VAPORIZATION

THE LATENT HEAT OF VAPORIZATION, OR ENTHALPY OF VAPORIZATION, IS THE HEAT ENERGY ABSORBED BY A UNIT MASS OF A SUBSTANCE TO CHANGE FROM A LIQUID TO A GAS AT ITS BOILING POINT, OR RELEASED WHEN A UNIT MASS CHANGES FROM GAS TO LIQUID AT ITS CONDENSATION POINT. FOR WATER AT ITS BOILING POINT OF 100 DEGREES CELSIUS (AT STANDARD ATMOSPHERIC PRESSURE), THIS VALUE IS A SUBSTANTIAL 2260 KILOJOULES PER KILOGRAM (kJ/kg). THIS SIGNIFICANTLY LARGER VALUE COMPARED TO THE LATENT HEAT OF FUSION HIGHLIGHTS THE GREATER AMOUNT OF ENERGY NEEDED TO COMPLETELY OVERCOME INTERMOLECULAR FORCES AND SEPARATE MOLECULES INTO THE DISPERSED GASEOUS STATE. THIS IS WHY STEAM BURNS ARE OFTEN MORE SEVERE THAN HOT WATER BURNS – THE CONDENSING STEAM RELEASES A VAST AMOUNT OF LATENT HEAT ONTO THE SKIN.

LATENT HEAT OF SUBLIMATION

SUBLIMATION IS A PHASE TRANSITION WHERE A SUBSTANCE CHANGES DIRECTLY FROM A SOLID TO A GAS WITHOUT PASSING THROUGH THE LIQUID PHASE. THE LATENT HEAT OF SUBLIMATION (OR ENTHALPY OF SUBLIMATION) IS THE ENERGY REQUIRED TO CONVERT A UNIT MASS OF A SUBSTANCE FROM SOLID TO GAS DIRECTLY. THIS VALUE IS ESSENTIALLY THE SUM OF THE LATENT

HEAT OF FUSION AND THE LATENT HEAT OF VAPORIZATION AT A GIVEN TEMPERATURE AND PRESSURE. A COMMON EXAMPLE IS DRY ICE (SOLID CARBON DIOXIDE), WHICH SUBLIMATES DIRECTLY INTO GASEOUS CO₂ AT ROOM TEMPERATURE. WHILE LESS COMMONLY DISCUSSED IN BASIC CONTEXTS, THE LATENT HEAT OF SUBLIMATION PLAYS A ROLE IN PHENOMENA LIKE THE DRYING OF CLOTHES IN COLD WEATHER OR THE FORMATION OF FROST.

FACTORS AFFECTING LATENT HEAT

WHILE THE VALUES FOR LATENT HEAT ARE OFTEN QUOTED AS CONSTANTS FOR SPECIFIC SUBSTANCES, IT'S IMPORTANT TO RECOGNIZE THAT THEY CAN BE INFLUENCED BY EXTERNAL CONDITIONS. THE PRIMARY FACTOR DICTATING THE LATENT HEAT VALUES IS THE NATURE OF THE INTERMOLECULAR FORCES WITHIN THE SUBSTANCE. SUBSTANCES WITH STRONGER INTERMOLECULAR FORCES WILL GENERALLY REQUIRE MORE ENERGY TO BREAK THESE BONDS DURING A PHASE TRANSITION, THUS HAVING HIGHER LATENT HEATS. FOR EXAMPLE, WATER, WITH ITS STRONG HYDROGEN BONDING, HAS A REMARKABLY HIGH LATENT HEAT OF VAPORIZATION COMPARED TO MANY OTHER LIQUIDS.

ANOTHER SIGNIFICANT FACTOR IS PRESSURE. FOR MOST SUBSTANCES, THE LATENT HEAT OF FUSION IS RELATIVELY INSENSITIVE TO PRESSURE CHANGES, ESPECIALLY AT TYPICAL ATMOSPHERIC CONDITIONS. HOWEVER, THE LATENT HEAT OF VAPORIZATION IS GENERALLY DEPENDENT ON PRESSURE. AS PRESSURE INCREASES, THE BOILING POINT OF A LIQUID ALSO INCREASES, AND THE LATENT HEAT OF VAPORIZATION TENDS TO DECREASE. THIS IS BECAUSE AT HIGHER PRESSURES, THE MOLECULES ARE ALREADY SOMEWHAT CLOSER TOGETHER, AND LESS ENERGY IS REQUIRED TO TRANSITION THEM INTO THE GASEOUS PHASE. CONVERSELY, AT LOWER PRESSURES (LIKE AT HIGH ALTITUDES), WATER BOILS AT A LOWER TEMPERATURE, AND THE LATENT HEAT OF VAPORIZATION IS SLIGHTLY HIGHER.

CALCULATING LATENT HEAT

CALCULATING THE AMOUNT OF HEAT ABSORBED OR RELEASED DURING A PHASE CHANGE IS STRAIGHTFORWARD ONCE YOU KNOW THE LATENT HEAT VALUE FOR THE SUBSTANCE AND THE MASS INVOLVED. THE FORMULA IS QUITE SIMPLE: THE HEAT ENERGY (Q) TRANSFERRED IS EQUAL TO THE MASS (M) OF THE SUBSTANCE MULTIPLIED BY THE SPECIFIC LATENT HEAT (L) OF THE PHASE TRANSITION.

THE FORMULA IS EXPRESSED AS: $Q = m L$

HERE:

- Q REPRESENTS THE HEAT ENERGY TRANSFERRED, TYPICALLY MEASURED IN JOULES (J) OR KILOJOULES (kJ).
- M REPRESENTS THE MASS OF THE SUBSTANCE UNDERGOING THE PHASE CHANGE, USUALLY IN KILOGRAMS (kg) OR GRAMS (g).
- L REPRESENTS THE SPECIFIC LATENT HEAT OF THE TRANSITION (FUSION, VAPORIZATION, OR SUBLIMATION), WHICH IS THE ENERGY PER UNIT MASS REQUIRED FOR THE PHASE CHANGE. THIS IS TYPICALLY GIVEN IN JOULES PER KILOGRAM (J/kg) OR KILOJOULES PER KILOGRAM (kJ/kg).

FOR INSTANCE, TO CALCULATE HOW MUCH ENERGY IS NEEDED TO MELT 2 KILOGRAMS OF ICE AT 0°C, YOU WOULD USE THE LATENT HEAT OF FUSION FOR WATER (APPROXIMATELY 334 kJ/kg):

$$Q = 2 \text{ kg } 334 \text{ kJ/kg} = 668 \text{ kJ}$$

SO, 668 KILOJOULES OF ENERGY WOULD BE ABSORBED BY THE ICE TO TURN INTO WATER AT THE SAME TEMPERATURE. THIS EQUATION IS FUNDAMENTAL FOR ANY QUANTITATIVE ANALYSIS INVOLVING PHASE CHANGES IN PHYSICS AND ENGINEERING.

REAL-WORLD APPLICATIONS OF LATENT HEAT

THE CONCEPT OF LATENT HEAT IS NOT JUST AN ABSTRACT SCIENTIFIC PRINCIPLE; IT HAS PROFOUND AND WIDESPREAD APPLICATIONS THAT IMPACT OUR DAILY LIVES AND VARIOUS INDUSTRIES. FROM THE NATURAL REGULATION OF EARTH'S TEMPERATURE TO THE FUNCTIONING OF OUR REFRIGERATORS, LATENT HEAT PLAYS AN INDISPENSABLE ROLE. ITS ABILITY TO ABSORB OR RELEASE LARGE AMOUNTS OF ENERGY WITHOUT A TEMPERATURE CHANGE MAKES IT INCREDIBLY USEFUL FOR CONTROLLING THERMAL ENVIRONMENTS AND ENABLING CRUCIAL PROCESSES.

LATENT HEAT IN METEOROLOGY

ONE OF THE MOST SIGNIFICANT APPLICATIONS OF LATENT HEAT IS IN UNDERSTANDING AND PREDICTING WEATHER PATTERNS. WHEN WATER EVAPORATES FROM OCEANS, LAKES, AND RIVERS, IT ABSORBS A TREMENDOUS AMOUNT OF LATENT HEAT FROM ITS SURROUNDINGS. THIS INVISIBLE PROCESS COOLS THE SURFACE FROM WHICH THE WATER EVAPORATES. AS THIS WATER VAPOR RISES INTO THE ATMOSPHERE, IT COOLS AND CONDENSES TO FORM CLOUDS AND PRECIPITATION. DURING CONDENSATION, THE ABSORBED LATENT HEAT IS RELEASED BACK INTO THE ATMOSPHERE, ACTING AS A POWERFUL ENERGY SOURCE FOR STORMS, HURRICANES, AND THUNDERSTORMS. THIS RELEASE OF LATENT HEAT IS A PRIMARY DRIVER OF ATMOSPHERIC CIRCULATION AND CONTRIBUTES SIGNIFICANTLY TO THE ENERGY BUDGET OF THE EARTH'S CLIMATE SYSTEM.

LATENT HEAT IN REFRIGERATION AND AIR CONDITIONING

THE ENTIRE PRINCIPLE BEHIND REFRIGERATION AND AIR CONDITIONING SYSTEMS HINGES ON THE EXPLOITATION OF LATENT HEAT, SPECIFICALLY THE LATENT HEAT OF VAPORIZATION. THESE SYSTEMS WORK BY CIRCULATING A REFRIGERANT FLUID. IN THE EVAPORATOR COILS INSIDE YOUR REFRIGERATOR OR THE COOLING COILS OF AN AIR CONDITIONER, THE REFRIGERANT IS AT LOW PRESSURE AND ABSORBS HEAT FROM THE SURROUNDING AIR. THIS ABSORPTION OF HEAT CAUSES THE REFRIGERANT TO VAPORIZE, CHANGING FROM A LIQUID TO A GAS. THE ENERGY REQUIRED FOR THIS VAPORIZATION IS THE LATENT HEAT OF VAPORIZATION, WHICH IS DRAWN FROM THE AIR, THEREBY COOLING IT. THE GASEOUS REFRIGERANT IS THEN COMPRESSED AND SENT TO THE CONDENSER COILS, WHERE IT RELEASES THE ABSORBED LATENT HEAT TO THE OUTSIDE ENVIRONMENT AS IT CONDENSES BACK INTO A LIQUID, COMPLETING THE COOLING CYCLE.

LATENT HEAT IN INDUSTRIAL PROCESSES

MANY INDUSTRIAL PROCESSES RELY HEAVILY ON THE CONTROLLED USE OF LATENT HEAT. FOR INSTANCE, IN POWER GENERATION PLANTS, WATER IS HEATED TO PRODUCE STEAM, WHICH DRIVES TURBINES. THE PHASE CHANGE FROM WATER TO STEAM INVOLVES ABSORBING A SIGNIFICANT AMOUNT OF LATENT HEAT. IN CHEMICAL MANUFACTURING, DISTILLATION PROCESSES UTILIZE THE VAPORIZATION AND CONDENSATION OF DIFFERENT COMPONENTS TO SEPARATE THEM BASED ON THEIR BOILING POINTS, ALL DRIVEN BY LATENT HEAT EXCHANGES. SIMILARLY, THE MANUFACTURING OF MANY MATERIALS, FROM METALS TO PLASTICS, INVOLVES MELTING AND SOLIDIFYING PROCESSES THAT ARE GOVERNED BY LATENT HEATS OF FUSION. EFFICIENTLY MANAGING THESE HEAT TRANSFERS IS CRUCIAL FOR OPTIMIZING ENERGY CONSUMPTION AND PRODUCT QUALITY IN THESE INDUSTRIES.

THE POWER OF LATENT HEAT IN REGULATING AND DRIVING PROCESSES IS TRULY REMARKABLE. WHETHER IT'S THE GENTLE MELTING OF SNOW IN SPRING, THE FEROCIOUS ENERGY OF A HURRICANE, OR THE EFFICIENT COOLING OF YOUR HOME, THE HIDDEN ENERGY INVOLVED IN PHASE TRANSITIONS IS A FUNDAMENTAL FORCE SHAPING OUR PLANET AND OUR TECHNOLOGY.

FAQ

Q: WHAT IS THE DIFFERENCE BETWEEN SENSIBLE HEAT AND LATENT HEAT?

A: SENSIBLE HEAT IS THE HEAT THAT CAUSES A CHANGE IN TEMPERATURE OF A SUBSTANCE WITHOUT CHANGING ITS PHASE. WHEN YOU HEAT WATER FROM 20°C TO 40°C, THAT'S SENSIBLE HEAT. LATENT HEAT, ON THE OTHER HAND, IS THE HEAT

ABSORBED OR RELEASED DURING A PHASE CHANGE (LIKE MELTING OR BOILING) AT A CONSTANT TEMPERATURE.

Q: WHY DOES WATER HAVE A HIGH LATENT HEAT OF VAPORIZATION?

A: WATER HAS A HIGH LATENT HEAT OF VAPORIZATION DUE TO THE STRONG HYDROGEN BONDS BETWEEN ITS MOLECULES. A SIGNIFICANT AMOUNT OF ENERGY IS REQUIRED TO BREAK THESE BONDS TO CONVERT LIQUID WATER INTO GASEOUS STEAM.

Q: CAN LATENT HEAT BE OBSERVED IN EVERYDAY LIFE BESIDES BOILING OR FREEZING?

A: YES, YOU OBSERVE LATENT HEAT WHEN CLOTHES DRY ON A CLOTHESLINE. THE WATER EVAPORATES FROM THE FABRIC, ABSORBING LATENT HEAT FROM THE SURROUNDINGS, WHICH MAKES THE CLOTHES FEEL COOLER AS THEY DRY.

Q: IS LATENT HEAT ALWAYS ABSORBED, OR CAN IT BE RELEASED?

A: LATENT HEAT CAN BE EITHER ABSORBED OR RELEASED. ENERGY IS ABSORBED DURING PROCESSES LIKE MELTING, EVAPORATION, AND SUBLIMATION (SOLID TO LIQUID, LIQUID TO GAS, SOLID TO GAS). ENERGY IS RELEASED DURING THE OPPOSITE PROCESSES: FREEZING (LIQUID TO SOLID), CONDENSATION (GAS TO LIQUID), AND DEPOSITION (GAS TO SOLID).

Q: WHAT HAPPENS TO THE TEMPERATURE OF A SUBSTANCE DURING A PHASE CHANGE?

A: THE TEMPERATURE OF A SUBSTANCE REMAINS CONSTANT DURING A PHASE CHANGE AS LONG AS THE PRESSURE IS ALSO CONSTANT. ALL THE ENERGY ADDED OR REMOVED IS USED FOR THE PHASE TRANSITION ITSELF, NOT TO CHANGE THE KINETIC ENERGY OF THE MOLECULES.

Q: HOW DOES LATENT HEAT RELATE TO CLIMATE CHANGE?

A: LATENT HEAT PLAYS A CRUCIAL ROLE IN THE EARTH'S ENERGY BUDGET. CHANGES IN EVAPORATION AND PRECIPITATION PATTERNS, DRIVEN BY TEMPERATURE SHIFTS, CAN ALTER THE AMOUNT OF LATENT HEAT ABSORBED AND RELEASED IN THE ATMOSPHERE, POTENTIALLY INFLUENCING WEATHER EXTREMES AND GLOBAL WARMING.

Q: WHAT IS THE LATENT HEAT OF FUSION FOR WATER?

A: THE LATENT HEAT OF FUSION FOR WATER IS APPROXIMATELY 334 KILOJOULES PER KILOGRAM (kJ/kg) AT 0 DEGREES CELSIUS. THIS MEANS IT TAKES 334 kJ OF ENERGY TO MELT 1 KG OF ICE INTO WATER AT 0°C.

Q: HOW IS LATENT HEAT USED IN COOKING?

A: WHEN YOU BOIL WATER FOR COOKING, THE WATER STAYS AT 100°C (AT SEA LEVEL) DUE TO THE LATENT HEAT OF VAPORIZATION. THIS CONSTANT TEMPERATURE IS ESSENTIAL FOR MANY COOKING METHODS, ENSURING EVEN COOKING.

What Is Latent Heat Physics

What Is Latent Heat Physics

Related Articles

- [what is a pulse in physics](#)
- [what is brownian motion in physics](#)
- [wave motion in physics](#)

[Back to Home](#)