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having the same (hydrogen) ion concentration; that mix without change of ionization. L19. 2 *Physiol.* Occurring without causing any change in pH, as the removal of carbon dioxide from the tissues by the blood. E20.

**isoionic** / $\Lambda$ ISƏUAI'DIIK/ a. E20. [f. ISO- + IONIC a.<sup>2</sup>] Chem. Of a solute or solution: giving rise to or containing no non-colloidal ions other than those formed by dissociation of the solvent.

those formating in ion-contrait nois other than those formed by dissociation of the solvent.

isoionic point the point (usu. pH value) at which the average number of protons attached to the basic groups of solute molecules is equal to the average number dissociated from the acidic groups.

isolable /'AIS(3)lab(3)l/ a. MI9. [f. ISOLATE v. + -ABLE.] Able to be isolated. isolability n. L20.

isolatable /'Aisəleitəb(ə)l, Aisə(υ)'lei-/ a. M20. [f. as prec.] = prec. isolata'bility n. M20.

isolate /\*\as(\gamma)\text{isolate} /\*\as(\gamma)\text{isolate} /\*\as(\gamma)\text{isolate} /\as(\gamma)\text{isolated} /\as(\gamma)\text{isolated} = Isolated. E19. B \ n. 1 An isolated thing; \( esp. \) a thing abstracted from its normal context for study. L19. 2 \( Perfumery. A \) compound purified from a natural oil. E20. 3 \( Microbiol. \) A group, esp. a pure culture, of similar micro-organisms isolated for study. M20. 4 \( Sociol. \) & \( Psychol. \) A person, community, group, or (occas.) an animal isolated from normal social interaction, from choice or through separation or rejection. M20. 5 \( Biol. \) A population which has become distinct from the parent species through the operation of an isolating mechanism. M20.

isolate /'Aisəleit/ v.t. E19. [Back-form. f. ISOLATED (now regarded as the pa. pple of the vb); partly after Fr. isoler: see -ATE<sup>3</sup>.] I Place or set apart or alone; cause to stand alone or detached, separated from or unconnected with other things or persons. Also, distinguish, identify. E19. 2 Chem. Obtain or extract (a substance) in a pure form. M19. 3 Electr. Insulate, esp. by a physical gap; disconnect. M19. 4 Subject (an infected person or place) to strict quarantipe. L19.

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1 W. S. Churchill Until agrarian problems could be isolated from other political issues, there was little hope. M. Meyers Strindberg withdrew into himself and isolated himself. from his colleagues. A. Munro Blizzards still isolate the towns and villages. J. M. Coetzee I isolated over four hundred different characters in the script. 2 M. Pyke A few milligrams of vitamin B12 had been isolated and the nature of its complex molecule established.

isolated /'Misəleritid/ a. M18. [f. Fr. isolé f. It. isolato f. late L insulaus made an island, f. L insula island: see Artz<sup>3</sup>, -ED<sup>3</sup>. Cf. prec.] Placed or standing apart or alone; detached or separate from other things or persons; unconnected with anything else: solitary.

anything else; solitary.

J. REED There were still isolated cases of defiance towards the new Government, but they were rare. B. EMECHETA An isolated place, hidden. by the surrounding desert and hills. L. NKOSI A bitter man, secretive and isolated. isolated pawn Chess: without other pawns of the same colour in adjacent files.

isolati n.pl. see ISOLATO.

isolating /'Aisəleitin/ ppl a. MI9. [f. ISOLATE v. + -ING<sup>2</sup>.] That isolates; Ling. (of a language) in which words tend not to vary in form (by either agglutination or inflection) according to grammatical function: = ANALYTIC a. 2

grammatical function; = ANALYTIC a. 3.
isolating barrier, isolating mechanism a
geographical, ecological, seasonal, physiological, or
other factor which limits or prevents interbreeding
between groups of plants or animals.

**isolation** /Assəleti( $\odot$ )n/ n. & a. M19. [f. ISOLATE v. + -ATION, partly after Fr. isolation.] A n. 1 The action of isolating something or someone; the fact or condition of being or having been isolated; separation from other things or

inherent tendency. L19. b Psychoanalysis. A defence mechanism whereby a particular wish or thought loses emotional significance by being isolated from its normal context. E20. 5 Biol. The limitation or prevention of interbreeding between groups of plants or animals by some isolating mechanism, leading to the development of new species or varieties. E20.

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**B** attrib. or as adj. Designating a procedure, place of confinement, etc., by which isolation is effected. M19.

isolation camp, hospital, ward, etc.

**isolationism** /AISƏ'leIʃ(ə)nIZ(ə)m/ n. E20. [f. prec. + -ISM.] The policy of seeking (political or national) isolation.

isolationist /AISO\*letf(3) MISt/ n. & a. L19. [f. as prec. + -IST.] A n. A person who favours or advocates (political or national) isolationism. L19. B adj. Characteristic of or being an isolationist. L19.

isolative / Assalettiv/ a. L19. [f. ISOLATE v. + ATIVE.] 1 Philol. Of a sound-change: taking place independently of adjacent sounds. Opp. COMBINATIVE 2. L19. 2 gen. Tending to isolate something or someone. M20.

isolato /i:səˈlɑːtəʊ/ n. Pl. -ti /-ti/, -tos. M19. [It.] An isolated person, an outcast.

isolator /'Aisəleitə/ n. Mi9. [f. Isolate v. + -OR.] A person who or thing which isolates something or someone; a contrivance for isolating something; an insulator.

isoleucine /AISO(U)'lursi:n/ n. E20. [f. ISO- + LEUCINE.] Biochem. A hydrophobic amino acid, CH<sub>3</sub>CH<sub>2</sub>CH(CH<sub>3</sub>)CH(NH<sub>2</sub>)COOH, which occurs in proteins and is essential in the human diet; 2-amino-3-methylpentanoic acid.

isolog n. see ISOLOGUE.

isologous /Al'sologos/ a. M19. [f. Iso- + Gk logos relation, ratio (see Logos) + -ous, after homologous.] 1 Chem. Of two or more (series of) compounds: having comparable or related molecular structures; now usu. spec., (of compounds) having identical molecular structure but different atoms of the same valency at some position(s) in the molecule. Cf. HOMOLOGOUS a. 4. M19. 2 Med. & Biol. Genetically identical, esp. as regards immunological factors; involving such individuals. M20.

isologue /'AISO(U)log/ n. Also \*-log. L19. [f. ISO- + -LOGUE.] Chem. Each of two or more isologous compounds.

isomer /'AISOMO / n. M19. [f. Gk isomeres sharing equally, f. as ISO- + meros part, share.] 1 Chem. A substance isomeric with another; any of a number of isomeric compounds or forms of a compound. M19. 2 Physics. Each of two or more nuclei having the same atomic number and mass number but different radioactive properties, as a result of being in different energy states; esp. a nucleus in a metastable excited state rather than the ground state. Also nuclear isomer. M20.

1 geometrical isomer, optical isomer, structural isomer, etc.

isomerase / M'somereiz/ n. M20. [f. prec. + -ASE.] *Biochem*. Any of various enzymes which bring about an isomerization reaction.

isomeric /AISO(O)'METIK/ a. MI9. [f. as ISOMER + -IC.] 1 Chem. Of two or more compounds, or of one compound in relation to another: composed of the same elements in the same proportions, and having the same molecular weight, but forming substances with different properties owing to the different grouping or arrangement of the constituent atoms. (Holl by

isomeride /AI'somerAId/ n. rare. MI9. [f. as ISOMER + -IDE.] Chem. = ISOMER I.

isomerise v. var. of isomerize.

isomerism / \(\text{At'someriz}(\)\)) m/ n. M19. [f. Isomer + -ISM.] 1 Chem. The fact or condition of being isomeric; identity of percentage composition in compounds differing in properties. M19. 2 Physics. The fact or condition of being nuclear isomers. M20.

I geometrical isomerism: in which compounds differ in the spatial arrangement of atoms relative to a (rigid) double bond. optical isomerism: in which compounds differ in the spatial arrangement of atoms around one or more asymmetric carbon atoms, and hence usu. in optical activity. STEREOISOMERISM. structural isomerism: in which molecules having the same constituent atoms have different structures, the atoms being joined in different sequences.

isomerize /At'somerAIZ/ v.t. & i. Also -ise. L19. [f. ISOMER + -IZE.] Chem. Change into an isomer (of the original substance). Usu. foll. by into. to.

isomerization n. (Chem.) the conversion of a compound into an isomer of itself L19.

isomerous /Al'som(3)ras/ a. M19. [f. Gk. isomerēs (see ISOMER) + -OUS.] Biol. Having the same number of (similar) parts; spec. in Bot. (of a flower) having the same number of parts in each whorl (opp. HETEROMEROUS 2b).

isometric /AISə(U)'metrik/ a. & n. M19. [f. Gk isometria equality of measure, f. as ISO- +-METRY: see -IC.] A adj. 1 Of equal measure or dimensions. M19. 2 Drawing. Designating a method of projection or perspective in which the three principal dimensions are represented by three axes I20° apart, with all measurements on the same scale, used in technical and architectural drawing. M19. 3 Cryst. = CUBIC a. 2b. M19. 4 Physiol. Of, pertaining to, or designating muscular action in which tension is developed without contraction of the muscle. L19. 5 Physics. Relating to, or taking place under, conditions of constant volume. L19. 6 Biol. Of growth: maintaining constant proportions with increase in size. M20. 7 Math. That is an isometry; related by an isometry. Foll. by to. M20. B n. 1 Physics. A line in a diagram that corresponds to or represents states of equal volume. L19. 2 In pl. A system of stationary physical exercises in which muscles are caused to act isometrically against one another or against an unyielding object. M20.

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isometrical /AISO(O) metrik(O) 1/ a. MI9. [f. as prec. + -AL<sup>1</sup>.] = ISOMETRIC a. 2, 3.

isometrically /AISO(U)'metrik(3)li/ adv. MI9. [f. ISOMETRIC a. or prec.: see -ICALLY.] 1 Drawing. In the manner of isometric projection. MI9. 2 Physiol. Under isometric conditions. E20. 3 Math. By means of or in the manner of an isometry. M20.

isometry /Al'somitri/ n. M20. [f. as ISOMETRIC: see -V³.] 1 Math. A one-to-one transformation of one metric space into another that preserves the distances or metrics between each pair of points. M20. 2 Biol. (Growth exhibiting) constancy of proportion with increase in size. Cf. ALLOMETRY. M20.

isomorph /'AISO(O)mo:f/ n. M19. [f. ISO- + -MORPH.] 1 A substance or organism isomorphic with another. M19. 2 Ling. A line (imaginary or on a map) bounding an area in which a particular morphological form occurs; a morphological isogloss. rare. E2O.

isomorphic / \text{Ass}(U) \text{mo:fik} / a. \text{ M19. [f. as prec.} + \text{-IC.}] 1 \text{ Chem. & Min. Isomorphous;} \text{pertaining to or involving isomorphism. M19. 2 \text{ Math. & Philos.} Of groups or other sets: corresponding to each other in form, and in the

having the same (hydrogen) ion concentration; that mix without change of ionization. L19. 2 *Physiol.* Occurring without causing any change in pH, as the removal of carbon dioxide from the tissues by the blood. E20.

isoionic /AISƏUAI'DNIK/ a. E20. [f. ISO- + IONIC a.2] Chem. Of a solute or solution: giving rise to or containing no non-colloidal ions other than those formed by dissociation of the solvent.

isoionic point the point (usu. pH value) at which the average number of protons attached to the basic groups of solute molecules is equal to the average number dissociated from the acidic groups.

**isolable** /' $\Lambda$ IS( $\vartheta$ ) $|\vartheta$ b( $\vartheta$ )|/ a. MI9. [f. ISOLATE v. + -ABLE.] Able to be isolated. isola bility n. 120.

isolatable /'Aisəleitəb(ə)l, Aisə(U)'lei-/ a. M20. [f. as prec.] = prec. isolata'bility n. M20.

isolate /'AIS(3)lət/ a. & n. eig. [f. (as) Isolated.] A adj. = Isolated. eig. B n. 1 An isolated thing; esp. a thing abstracted from its normal context for study. 119. 2 Perfumery. A compound purified from a natural oil. E20. 3 Microbiol. A group, esp. a pure culture, of similar micro-organisms isolated for study. M20. 4 Sociol. & Psychol. A person, community, group, or (occas.) an animal isolated from normal social interaction, from choice or through separation or rejection. M20. 5 Biol. A population which has become distinct from the parent species through the operation of an isolating mechanism. M20.

isolate /'nisəleit/ v.t. E19. [Back-form. f. ISOLATED (now regarded as the pa. pple of the vb); partly after Fr. isoler: see -ATE<sup>3</sup>.] 1 Place or set apart or alone; cause to stand alone or detached, separated from or unconnected with other things or persons. Also, distinguish, identify. E19. 2 Chem. Obtain or extract (a substance) in a pure form. M19. 3 Electr. Insulate, esp. by a physical gap; disconnect. M19. 4 Subject (an infected person or place) to

strict quarantine. L19.

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isolated /'AISəleitid/ a. MI8. [f. Fr. isolé f. It. isolato f. late L insulatus made an island, f. L insula island; see -ATE<sup>2</sup>, -ED<sup>1</sup>. Cf. prec.] Placed or standing apart or alone; detached or separate from other things or persons; unconnected with

anything else; solitary.

J. Reed There were still isolated cases of defiance towards the new Government, but they were rare. B. EMECHETA An isolated place, hidden. by the surrounding desert and hills. L. NKOSI A bitter man, secretive and isolated. isolated pawn Chest: without other pawns of the same colour in adjacent files.

isolati n.pl. see ISOLATO.

isolating /'Aisəleitiij/ ppl a. MI9. [f. ISOLATE v. + -ING².] That isolates; Ling. (of a language) in which words tend not to vary in form (by either agglutination or inflection) according to

aggrammatical function; = ANALYTIC a. 3.
isolating barrier, isolating mechanism a geographical, ecological, seasonal, physiological, or other factor which limits or prevents interbreeding between groups of plants or animals.

isolation /AISƏ'leI $\int$ (Ə)n/ n. & a. MI9. [f. ISOLATE v. + -ATION, partly after Fr. isolation.] A n. 1 The action of isolating something or someone; the fact or condition of being or having been isolated; separation from other things or persons; solitariness. M19. 2 The separation of a chemical substance in a pure state. M19. 3 spec. The complete separation of patients with a contagious or infectious disease from contact with other people; the prevention of access to a place so infected. L19. 4a Psychol. & Sociol. The separation of a person or thing from the normal (social) environment or context, either deliberately for study, or as a result of some

inherent tendency. L19. b Psychoanalysis. A defence mechanism whereby a particular wish or thought loses emotional significance by being isolated from its normal context. E20. 5 Biol. The limitation or prevention of interbreeding between groups of plants or animals by some isolating mechanism, leading to the development of new species or varieties. E20.

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1 in isolation considered singly and not relative to something else. SPLENDID isolation.

B attrib. or as adj. Designating a procedure, place of confinement, etc., by which isolation is effected. M19.
isolation camp, hospital, ward, etc.

isolationism /AISƏ'leI (2) nIZ(2) m/ n. E20. [f. prec. + -ISM.] The policy of seeking (political or national) isolation.

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isolative /ˈʌɪsoletiv/ a. Lig. [f. Isolate v. + -ATIVE.] 1 Philol. Of a sound-change: taking place independently of adjacent sounds. Opp. COMBINATIVE 2. Lig. 2 gen. Tending to isolate something or someone. M2O.

isolato /i:səˈlɑːtəʊ/ n. Pl. -ti /-ti/, -tos. M19. [It.] An isolated person, an outcast.

isolator /'Aisoletto/ n. M19. [f. ISOLATE v. + -OR.] A person who or thing which isolates something or someone; a contrivance for isolating something; an insulator.

isoleucine /AISə(U)'luːsiːn/ n. E20. [f. ISO- + LEUCINE J Biochem. A hydrophobic amino acid, CH<sub>3</sub>CH<sub>2</sub>CH(CH<sub>3</sub>)CH(NH<sub>2</sub>)COOH, which occurs in proteins and is essential in the human diet; 2-amino-3-methylpentanoic acid.

isolog n. see ISOLOGUE.

isologous /Al'splages/ a. M19. [f. 180- + Gk logos relation, ratio (see Logos) + -ous, after homologous.] 1 Chem. Of two or more (series of) compounds: having comparable or related molecular structures; now usu. spec., (of compounds) having identical molecular structure but different atoms of the same valency at some position(s) in the molecule. Cf. HOMOLOGOUS a. 4. MT9. 2 Med. & Biol. Genetically identical, esp. as regards immunological factors; individuals. M20. involving

**isologue** /'AISə(U)log/ n. Also \*-log. L19. [f. ISO- + -LOGUE.] Chem. Each of two or more isologous compounds.

isomer /'AISƏMƏ/ n. MI9. [f. Gk isomerës sharing equally, f. as ISO- + meros part, share.] 1 Chem. A substance isomeric with another; any of a number of isomeric compounds or forms of a compound. M19. 2 Physics. Each of two or more nuclei having the same atomic number and mass number but different radioactive properties, as a result of being in different energy states; esp. a nucleus in a metastable excited state rather than

the ground state. Also nuclear isomer. M20.

1 geometrical isomer, optical isomer, structural isomer,

isomerase /AI'sompreiz/ n. M20. [f. prec. -ASE.] Biochem. Any of various enzymes which bring about an isomerization reaction.

isomeric /AISə(U)'merik/ a. MI9. [f. as ISOMER + -IC.] 1 Chem. Of two or more compounds, or of one compound in relation to another: composed of the same elements in the same proportions, and having the same molecular weight, but forming substances with different properties owing to the different grouping or arrangement of the constituent atoms. (Foll. by with.) M19. 2 Physics. Of, pertaining to, or

designating nuclear isomers. M20.

¶ In sense 1, formerly extended to include compounds in which the number of atoms in one is a multiple of those in the other, or restricted to those with similar functional groups and hence similar

isomerically adv. as regards isomers; by isomerization: L19.

For other words beginning with iso- see the entry for iso-

isomeride /AI'SDMƏFAId/ n. rare. MI9. [f. as ISOMER + -IDE.] Chem. = ISOMER I.

isomerise v. var. of isomerize.

isomerism /ai'sdməriz(ə)m/ n. m19. [f. isomer + -ISM.] 1 Chem. The fact or condition of being isomeric; identity of percentage composition in compounds differing in properties. M19. 2 Physics. The fact or condition of being nuclear isomers. M20

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isomerize / al'someraiz/ v.t. & i. Also -ise. L19. [f. Isomer + -ize.] Chem. Change into an isomer (of the original substance). Usu. foll. by

isomeri'zation n. (Chem.) the conversion of a compound into an isomer of itself L19.

isomerous /n'som(2)r3s/ a. M19. [f. Gk. isomerës (see ISOMER) + -0US.] Biol. Having the same number of (similar) parts; spec. in Bot. (of a flower) having the same number of parts in each whorl (opp. HETEROMEROUS 2b).

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isomorph /'AISə(υ)moxf/ n. M19. [f. ISO- + -MORPH.] I A substance or organism isomorphic with another. M19. 2 *Ling*. A line (imaginary or on a map) bounding an area in which a particular morphological form occurs; morphological isogloss. rare. E20.

isomorphic /AISə(U)'mɔːfik/ a. MI9. [f. as prec. -IC.] 1 Chem. & Min. Isomorphous; pertaining to or involving isomorphism. M19. 2
Math. & Philos. Of groups or other sets:
corresponding to each other in form, and in the nature and product of their operations; related by or being an isomorphism. Foll. by to, with. L19. 3 Biol. Of closely similar form but independent origin. rare. L19. 4 Bot. In algae and certain fungi: designating a type of alternation of generations in which the two forms are morphologically similar. M20. 5 Ling. Similar in morphological structure, having similar morphological forms. M20.

