Hydrocarbons

A-Level Chemistry · Vocabulary in context

Word	Example
arene /'æren/	Benzene is an **arene**.
benzene /'benzi:n/	**Benzene** is a ring of six carbon atoms.
electrophilic substitution /ɪˌlektrəʊ'fɪlɪk ˌsʌbstɪ'tju:ʃn/	Benzene reacts by **electrophilic substitution**.
catalyst /'kætəlɪst/	A **catalyst** speeds up a reaction without being used up.
halogenoarene /'heɪlədʒnɔ:ren/	Chlorobenzene is a **halogenoarene**.
nitration /naɪ'treɪʃn/	**Nitration** of benzene gives nitrobenzene.
Friedel–Crafts alkylation /'fri:dl kræfts ˌælkɪ'leɪʃn/	**Friedel–Crafts alkylation** adds a methyl group to benzene.
Friedel–Crafts acylation /'fri:dl kræfts əkɪ'leɪʃn/	**Friedel–Crafts acylation** adds a C=O group to benzene. C=O
benzoic acid /ben'zəʊɪk 'æsɪd/	**Benzoic acid** is used to keep food fresh.
hydrogenation /haɪˌdrɒdʒəneɪʃn/	**Hydrogenation** of vegetable oil makes margarine.
side-chain /saɪd tʃeɪn/	Methylbenzene has a methyl **side-chain** on the ring.
benzene ring /'benzi:n rɪŋ/	Phenol has a **benzene ring**.
nitronium ion	The **nitronium ion**, NO2+, attacks benzene. NO2+

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halogen carrier	Iron(III) bromide is a **halogen carrier**. (III)
carbocation /ˌkɑ:bə'keɪʃn/	A **carbocation** has a positive charge on a carbon atom.
delocalisation /dɪˌlɒkəlaɪ'zeɪʃn/	**Delocalisation** makes benzene very stable.
horseshoe	The **horseshoe** in the intermediate shows that the ring is broken.
directing effect /daɪ'rektɪŋ ɪ'fekt/	The –OH group has a **directing effect**: it sends new groups to positions 2, 4 and 6. –OH 2、4 6