

2. Synthesis 2.1 - The Small Clusters

Background/Questions:

Obj 2.1.1

- (a) How many carbon clusters (from below to over 1000 atoms) are
- (b) How many carbon clusters (from 1000 to 10000 atoms) are
- (c) How many carbon clusters (from 10000 to 100000 atoms) are

Obj 2.1.2

- (a) How many carbon clusters (from 1000 to 10000 atoms) are
- (b) How many carbon clusters (from 10000 to 100000 atoms) are

Obj 2.1.3

- (a) C₂ (2 atoms)
- (b) C₃ (3 atoms)
- (c) C₄ (4 atoms)
- (d) C₅ (5 atoms)
- (e) C₆ (6 atoms)
- (f) C₇ (7 atoms)
- (g) C₈ (8 atoms)
- (h) C₉ (9 atoms)
- (i) C₁₀ (10 atoms)
- (j) C₁₁ (11 atoms)
- (k) C₁₂ (12 atoms)
- (l) C₁₃ (13 atoms)
- (m) C₁₄ (14 atoms)
- (n) C₁₅ (15 atoms)
- (o) C₁₆ (16 atoms)
- (p) C₁₇ (17 atoms)
- (q) C₁₈ (18 atoms)
- (r) C₁₉ (19 atoms)
- (s) C₂₀ (20 atoms)
- (t) C₂₁ (21 atoms)
- (u) C₂₂ (22 atoms)
- (v) C₂₃ (23 atoms)
- (w) C₂₄ (24 atoms)
- (x) C₂₅ (25 atoms)
- (y) C₂₆ (26 atoms)
- (z) C₂₇ (27 atoms)
- (aa) C₂₈ (28 atoms)
- (ab) C₂₉ (29 atoms)
- (ac) C₃₀ (30 atoms)
- (ad) C₃₁ (31 atoms)
- (ae) C₃₂ (32 atoms)
- (af) C₃₃ (33 atoms)
- (ag) C₃₄ (34 atoms)
- (ah) C₃₅ (35 atoms)
- (ai) C₃₆ (36 atoms)
- (aj) C₃₇ (37 atoms)
- (ak) C₃₈ (38 atoms)
- (al) C₃₉ (39 atoms)
- (am) C₄₀ (40 atoms)
- (an) C₄₁ (41 atoms)
- (ao) C₄₂ (42 atoms)
- (ap) C₄₃ (43 atoms)
- (aq) C₄₄ (44 atoms)
- (ar) C₄₅ (45 atoms)
- (as) C₄₆ (46 atoms)
- (at) C₄₇ (47 atoms)
- (au) C₄₈ (48 atoms)
- (av) C₄₉ (49 atoms)
- (aw) C₅₀ (50 atoms)
- (ax) C₅₁ (51 atoms)
- (ay) C₅₂ (52 atoms)
- (az) C₅₃ (53 atoms)
- (ba) C₅₄ (54 atoms)
- (bb) C₅₅ (55 atoms)
- (bc) C₅₆ (56 atoms)
- (bd) C₅₇ (57 atoms)
- (be) C₅₈ (58 atoms)
- (bf) C₅₉ (59 atoms)
- (bg) C₆₀ (60 atoms)
- (bh) C₆₁ (61 atoms)
- (bi) C₆₂ (62 atoms)
- (bj) C₆₃ (63 atoms)
- (bk) C₆₄ (64 atoms)
- (bl) C₆₅ (65 atoms)
- (bm) C₆₆ (66 atoms)
- (bn) C₆₇ (67 atoms)
- (bo) C₆₈ (68 atoms)
- (bp) C₆₉ (69 atoms)
- (bq) C₇₀ (70 atoms)
- (br) C₇₁ (71 atoms)
- (bs) C₇₂ (72 atoms)
- (bt) C₇₃ (73 atoms)
- (bu) C₇₄ (74 atoms)
- (bv) C₇₅ (75 atoms)
- (bw) C₇₆ (76 atoms)
- (bx) C₇₇ (77 atoms)
- (by) C₇₈ (78 atoms)
- (bz) C₇₉ (79 atoms)
- (ca) C₈₀ (80 atoms)
- (cb) C₈₁ (81 atoms)
- (cc) C₈₂ (82 atoms)
- (cd) C₈₃ (83 atoms)
- (ce) C₈₄ (84 atoms)
- (cf) C₈₅ (85 atoms)
- (cg) C₈₆ (86 atoms)
- (ch) C₈₇ (87 atoms)
- (ci) C₈₈ (88 atoms)
- (cj) C₈₉ (89 atoms)
- (ck) C₉₀ (90 atoms)
- (cl) C₉₁ (91 atoms)
- (cm) C₉₂ (92 atoms)
- (cn) C₉₃ (93 atoms)
- (co) C₉₄ (94 atoms)
- (cp) C₉₅ (95 atoms)
- (cq) C₉₆ (96 atoms)
- (cr) C₉₇ (97 atoms)
- (cs) C₉₈ (98 atoms)
- (ct) C₉₉ (99 atoms)
- (cu) C₁₀₀ (100 atoms)
- (cv) C₁₀₁ (101 atoms)
- (cw) C₁₀₂ (102 atoms)
- (cx) C₁₀₃ (103 atoms)
- (cy) C₁₀₄ (104 atoms)
- (cz) C₁₀₅ (105 atoms)
- (da) C₁₀₆ (106 atoms)
- (db) C₁₀₇ (107 atoms)
- (dc) C₁₀₈ (108 atoms)
- (dd) C₁₀₉ (109 atoms)
- (de) C₁₁₀ (110 atoms)
- (df) C₁₁₁ (111 atoms)
- (dg) C₁₁₂ (112 atoms)
- (dh) C₁₁₃ (113 atoms)
- (di) C₁₁₄ (114 atoms)
- (dj) C₁₁₅ (115 atoms)
- (dk) C₁₁₆ (116 atoms)
- (dl) C₁₁₇ (117 atoms)
- (dm) C₁₁₈ (118 atoms)
- (dn) C₁₁₉ (119 atoms)
- (do) C₁₂₀ (120 atoms)
- (dp) C₁₂₁ (121 atoms)
- (dq) C₁₂₂ (122 atoms)
- (dr) C₁₂₃ (123 atoms)
- (ds) C₁₂₄ (124 atoms)
- (dt) C₁₂₅ (125 atoms)
- (du) C₁₂₆ (126 atoms)
- (dv) C₁₂₇ (127 atoms)
- (dw) C₁₂₈ (128 atoms)
- (dx) C₁₂₉ (129 atoms)
- (dy) C₁₃₀ (130 atoms)
- (dz) C₁₃₁ (131 atoms)
- (ea) C₁₃₂ (132 atoms)
- (eb) C₁₃₃ (133 atoms)
- (ec) C₁₃₄ (134 atoms)
- (ed) C₁₃₅ (135 atoms)
- (ee) C₁₃₆ (136 atoms)
- (ef) C₁₃₇ (137 atoms)
- (eg) C₁₃₈ (138 atoms)
- (eh) C₁₃₉ (139 atoms)
- (ei) C₁₄₀ (140 atoms)
- (ej) C₁₄₁ (141 atoms)
- (ek) C₁₄₂ (142 atoms)
- (el) C₁₄₃ (143 atoms)
- (em) C₁₄₄ (144 atoms)
- (en) C₁₄₅ (145 atoms)
- (eo) C₁₄₆ (146 atoms)
- (ep) C₁₄₇ (147 atoms)
- (eq) C₁₄₈ (148 atoms)
- (er) C₁₄₉ (149 atoms)
- (es) C₁₅₀ (150 atoms)
- (et) C₁₅₁ (151 atoms)
- (eu) C₁₅₂ (152 atoms)
- (ev) C₁₅₃ (153 atoms)
- (ew) C₁₅₄ (154 atoms)
- (ex) C₁₅₅ (155 atoms)
- (ey) C₁₅₆ (156 atoms)
- (ez) C₁₅₇ (157 atoms)
- (fa) C₁₅₈ (158 atoms)
- (fb) C₁₅₉ (159 atoms)
- (fc) C₁₆₀ (160 atoms)
- (fd) C₁₆₁ (161 atoms)
- (fe) C₁₆₂ (162 atoms)
- (ff) C₁₆₃ (163 atoms)
- (fg) C₁₆₄ (164 atoms)
- (fh) C₁₆₅ (165 atoms)
- (fi) C₁₆₆ (166 atoms)
- (fj) C₁₆₇ (167 atoms)
- (fk) C₁₆₈ (168 atoms)
- (fl) C₁₆₉ (169 atoms)
- (fm) C₁₇₀ (170 atoms)
- (fn) C₁₇₁ (171 atoms)
- (fo) C₁₇₂ (172 atoms)
- (fp) C₁₇₃ (173 atoms)
- (fq) C₁₇₄ (174 atoms)
- (fr) C₁₇₅ (175 atoms)
- (fs) C₁₇₆ (176 atoms)
- (ft) C₁₇₇ (177 atoms)
- (fu) C₁₇₈ (178 atoms)
- (fv) C₁₇₉ (179 atoms)
- (fw) C₁₈₀ (180 atoms)
- (fx) C₁₈₁ (181 atoms)
- (fy) C₁₈₂ (182 atoms)
- (fz) C₁₈₃ (183 atoms)
- (ga) C₁₈₄ (184 atoms)
- (gb) C₁₈₅ (185 atoms)
- (gc) C₁₈₆ (186 atoms)
- (gd) C₁₈₇ (187 atoms)
- (ge) C₁₈₈ (188 atoms)
- (gf) C₁₈₉ (189 atoms)
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- (gh) C₁₉₁ (191 atoms)
- (gi) C₁₉₂ (192 atoms)
- (gj) C₁₉₃ (193 atoms)
- (gk) C₁₉₄ (194 atoms)
- (gl) C₁₉₅ (195 atoms)
- (gm) C₁₉₆ (196 atoms)
- (gn) C₁₉₇ (197 atoms)
- (go) C₁₉₈ (198 atoms)
- (gp) C₁₉₉ (199 atoms)
- (gq) C₂₀₀ (200 atoms)
- (gr) C₂₀₁ (201 atoms)
- (gs) C₂₀₂ (202 atoms)
- (gt) C₂₀₃ (203 atoms)
- (gu) C₂₀₄ (204 atoms)
- (gv) C₂₀₅ (205 atoms)
- (gw) C₂₀₆ (206 atoms)
- (gx) C₂₀₇ (207 atoms)
- (gy) C₂₀₈ (208 atoms)
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- (ha) C₂₁₀ (210 atoms)
- (hb) C₂₁₁ (211 atoms)
- (hc) C₂₁₂ (212 atoms)
- (hd) C₂₁₃ (213 atoms)
- (he) C₂₁₄ (214 atoms)
- (hf) C₂₁₅ (215 atoms)
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- (hj) C₂₁₉ (219 atoms)
- (hk) C₂₂₀ (220 atoms)
- (hl) C₂₂₁ (221 atoms)
- (hm) C₂₂₂ (222 atoms)
- (hn) C₂₂₃ (223 atoms)
- (ho) C₂₂₄ (224 atoms)
- (hp) C₂₂₅ (225 atoms)
- (hq) C₂₂₆ (226 atoms)
- (hr) C₂₂₇ (227 atoms)
- (hs) C₂₂₈ (228 atoms)
- (ht) C₂₂₉ (229 atoms)
- (hu) C₂₃₀ (230 atoms)
- (hv) C₂₃₁ (231 atoms)
- (hw) C₂₃₂ (232 atoms)
- (hx) C₂₃₃ (233 atoms)
- (hy) C₂₃₄ (234 atoms)
- (hz) C₂₃₅ (235 atoms)
- (ia) C₂₃₆ (236 atoms)
- (ib) C₂₃₇ (237 atoms)
- (ic) C₂₃₈ (238 atoms)
- (id) C₂₃₉ (239 atoms)
- (ie) C₂₄₀ (240 atoms)
- (if) C₂₄₁ (241 atoms)
- (ig) C₂₄₂ (242 atoms)
- (ih) C₂₄₃ (243 atoms)
- (ii) C₂₄₄ (244 atoms)
- (ij) C₂₄₅ (245 atoms)
- (ik) C₂₄₆ (246 atoms)
- (il) C₂₄₇ (247 atoms)
- (im) C₂₄₈ (248 atoms)
- (in) C₂₄₉ (249 atoms)
- (io) C₂₅₀ (250 atoms)
- (ip) C₂₅₁ (251 atoms)
- (iq) C₂₅₂ (252 atoms)
- (ir) C₂₅₃ (253 atoms)
- (is) C₂₅₄ (254 atoms)
- (it) C₂₅₅ (255 atoms)
- (iu) C₂₅₆ (256 atoms)
- (iv) C₂₅₇ (257 atoms)
- (iw) C₂₅₈ (258 atoms)
- (ix) C₂₅₉ (259 atoms)
- (iz) C₂₆₀ (260 atoms)
- (ja) C₂₆₁ (261 atoms)
- (jb) C₂₆₂ (262 atoms)
- (jc) C₂₆₃ (263 atoms)
- (jd) C₂₆₄ (264 atoms)
- (je) C₂₆₅ (265 atoms)
- (jf) C₂₆₆ (266 atoms)
- (jg) C₂₆₇ (267 atoms)
- (jh) C₂₆₈ (268 atoms)
- (ji) C₂₆₉ (269 atoms)
- (jj) C₂₇₀ (270 atoms)
- (jk) C₂₇₁ (271 atoms)
- (jl) C₂₇₂ (272 atoms)
- (jm) C₂₇₃ (273 atoms)
- (jn) C₂₇₄ (274 atoms)
- (jo) C₂₇₅ (275 atoms)
- (jp) C₂₇₆ (276 atoms)
- (jq) C₂₇₇ (277 atoms)
- (jr) C₂₇₈ (278 atoms)
- (js) C₂₇₉ (279 atoms)
- (jt) C₂₈₀ (280 atoms)
- (ju) C₂₈₁ (281 atoms)
- (jv) C₂₈₂ (282 atoms)
- (jw) C₂₈₃ (283 atoms)
- (jx) C₂₈₄ (284 atoms)
- (jy) C₂₈₅ (285 atoms)
- (jz) C₂₈₆ (286 atoms)
- (ka) C₂₈₇ (287 atoms)
- (kb) C₂₈₈ (288 atoms)
- (kc) C₂₈₉ (289 atoms)
- (kd) C₂₉₀ (290 atoms)
- (ke) C₂₉₁ (291 atoms)
- (kf) C₂₉₂ (292 atoms)
- (kg) C₂₉₃ (293 atoms)
- (kh) C₂₉₄ (294 atoms)
- (ki) C₂₉₅ (295 atoms)
- (kj) C₂₉₆ (296 atoms)
- (kk) C₂₉₇ (297 atoms)
- (kl) C₂₉₈ (298 atoms)
- (km) C₂₉₉ (299 atoms)
- (kn) C₃₀₀ (300 atoms)
- (ko) C₃₀₁ (301 atoms)
- (kp) C₃₀₂ (302 atoms)
- (kq) C₃₀₃ (303 atoms)
- (kr) C₃₀₄ (304 atoms)
- (ks) C₃₀₅ (305 atoms)
- (kt) C₃₀₆ (306 atoms)
- (ku) C₃₀₇ (307 atoms)
- (kv) C₃₀₈ (308 atoms)
- (kw) C₃₀₉ (309 atoms)
- (kx) C₃₁₀ (310 atoms)
- (ky) C₃₁₁ (311 atoms)
- (kz) C₃₁₂ (312 atoms)
- (la) C₃₁₃ (313 atoms)
- (lb) C₃₁₄ (314 atoms)
- (lc) C₃₁₅ (315 atoms)
- (ld) C₃₁₆ (316 atoms)
- (le) C₃₁₇ (317 atoms)
- (lf) C₃₁₈ (318 atoms)
- (lg) C₃₁₉ (319 atoms)
- (lh) C₃₂₀ (320 atoms)
- (li) C₃₂₁ (321 atoms)
- (lj) C₃₂₂ (322 atoms)
- (lk) C₃₂₃ (323 atoms)
- (ll) C₃₂₄ (324 atoms)
- (lm) C₃₂₅ (325 atoms)
- (ln) C₃₂₆ (326 atoms)
- (lo) C₃₂₇ (327 atoms)
- (lp) C₃₂₈ (328 atoms)
- (lq) C₃₂₉ (329 atoms)
- (lr) C₃₃₀ (330 atoms)
- (ls) C₃₃₁ (331 atoms)
- (lt) C₃₃₂ (332 atoms)
- (lu) C₃₃₃ (333 atoms)
- (lv) C₃₃₄ (334 atoms)
- (lw) C₃₃₅ (335 atoms)
- (lx) C₃₃₆ (336 atoms)
- (ly) C₃₃₇ (337 atoms)
- (lz) C₃₃₈ (338 atoms)
- (ma) C₃₃₉ (339 atoms)
- (mb) C₃₄₀ (340 atoms)
- (mc) C₃₄₁ (341 atoms)
- (md) C₃₄₂ (342 atoms)
- (me) C₃₄₃ (343 atoms)
- (mf) C₃₄₄ (344 atoms)
- (mg) C₃₄₅ (345 atoms)
- (mh) C₃₄₆ (346 atoms)
- (mi) C₃₄₇ (347 atoms)
- (mj) C₃₄₈ (348 atoms)
- (mk) C₃₄₉ (349 atoms)
- (ml) C₃₅₀ (350 atoms)
- (mn) C₃₅₁ (351 atoms)
- (mo) C₃₅₂ (352 atoms)
- (mp) C₃₅₃ (353 atoms)
- (mq) C₃₅₄ (354 atoms)
- (mr) C₃₅₅ (355 atoms)
- (ms) C₃₅₆ (356 atoms)
- (mt) C₃₅₇ (357 atoms)
- (mu) C₃₅₈ (358 atoms)
- (mv) C₃₅₉ (359 atoms)
- (mw) C₃₆₀ (360 atoms)
- (mx) C₃₆₁ (361 atoms)
- (my) C₃₆₂ (362 atoms)
- (mz) C₃₆₃ (363 atoms)
- (na) C₃₆₄ (364 atoms)
- (nb) C₃₆₅ (365 atoms)
- (nc) C₃₆₆ (366 atoms)
- (nd) C₃₆₇ (367 atoms)
- (ne) C₃₆₈ (368 atoms)
- (nf) C₃₆₉ (369 atoms)
- (ng) C₃₇₀ (370 atoms)
- (nh) C₃₇₁ (371 atoms)
- (ni) C₃₇₂ (372 atoms)
- (nj) C₃₇₃ (373 atoms)
- (nk) C₃₇₄ (374 atoms)
- (nl) C₃₇₅ (375 atoms)
- (nm) C₃₇₆ (376 atoms)
- (nn) C₃₇₇ (377 atoms)
- (no) C₃₇₈ (378 atoms)
- (np) C₃₇₉ (379 atoms)
- (nq) C₃₈₀ (380 atoms)
- (nr) C₃₈₁ (381 atoms)
- (ns) C₃₈₂ (382 atoms)
- (nt) C₃₈₃ (383 atoms)
- (nu) C₃₈₄ (384 atoms)
- (nv) C₃₈₅ (385 atoms)
- (nw) C₃₈₆ (386 atoms)
- (nx) C₃₈₇ (387 atoms)
- (ny) C₃₈₈ (388 atoms)
- (nz) C₃₈₉ (389 atoms)
- (oa) C₃₉₀ (390 atoms)
- (ob) C₃₉₁ (391 atoms)
- (oc) C₃₉₂ (392 atoms)
- (od) C₃₉₃ (393 atoms)
- (oe) C₃₉₄ (394 atoms)
- (of) C₃₉₅ (395 atoms)
- (og) C₃₉₆ (396 atoms)
- (oh) C₃₉₇ (397 atoms)
- (oi) C₃₉₈ (398 atoms)
- (oj) C₃₉₉ (399 atoms)
- (ok) C₄₀₀ (400 atoms)
- (ol) C₄₀₁ (401 atoms)
- (om) C₄₀₂ (402 atoms)
- (on) C₄₀₃ (403 atoms)
- (oo) C₄₀₄ (404 atoms)
- (op) C₄₀₅ (405 atoms)
- (oq) C₄₀₆ (406 atoms)
- (or) C₄₀₇ (407 atoms)
- (os) C₄₀₈ (408 atoms)
- (ot) C₄₀₉ (409 atoms)
- (ou) C₄₁₀ (410 atoms)
- (ov) C₄₁₁ (411 atoms)
- (ow) C₄₁₂ (412 atoms)
- (ox) C₄₁₃ (413 atoms)
- (oy) C₄₁₄ (414 atoms)
- (oz) C₄₁₅ (415 atoms)
- (pa) C₄₁₆ (416 atoms)
- (pb) C₄₁₇ (417 atoms)
- (pc) C₄₁₈ (418 atoms)
- (pd) C₄₁₉ (419 atoms)
- (pe) C₄₂₀ (420 atoms)
- (pf) C₄₂₁ (421 atoms)
- (pg) C₄₂₂ (422 atoms)
- (ph) C₄₂₃ (423 atoms)
- (pi) C₄₂₄ (424 atoms)
- (pj) C₄₂₅ (425 atoms)
- (pk) C₄₂₆ (426 atoms)
- (pl) C₄₂₇ (427 atoms)
- (pm) C₄₂₈ (428 atoms)
- (pn) C₄₂₉ (429 atoms)
- (po) C₄₃₀ (430 atoms)
- (pp) C₄₃₁ (431 atoms)
- (pq) C₄₃₂ (432 atoms)
- (pr) C₄₃₃ (433 atoms)
- (ps) C₄₃₄ (434 atoms)
- (pt) C₄₃₅ (435 atoms)
- (pu) C₄₃₆ (436 atoms)
- (pv) C₄₃₇ (437 atoms)
- (pw) C₄₃₈ (438 atoms)
- (px) C₄₃₉ (439 atoms)
- (py) C₄₄₀ (440 atoms)
- (pz) C₄₄₁ (441 atoms)
- (qa) C₄₄₂ (442 atoms)
- (qb) C₄₄₃ (443 atoms)
- (qc) C₄₄₄ (444 atoms)
- (qd) C₄₄₅ (445 atoms)
- (qe) C₄₄₆ (446 atoms)
- (qf) C₄₄₇ (447 atoms)
- (qg) C₄₄₈ (448 atoms)
- (qh) C₄₄₉ (449 atoms)
- (qi) C₄₅₀ (450 atoms)
- (qj) C₄₅₁ (451 atoms)
- (qk) C₄₅₂ (452 atoms)
- (ql) C₄₅₃ (453 atoms)
- (qm) C₄₅₄ (454 atoms)
- (qn) C₄₅₅ (455 atoms)
- (qo) C₄₅₆ (456 atoms)
- (qp) C₄₅₇ (457 atoms)
- (qq) C₄₅₈ (458 atoms)
- (qr) C₄₅₉ (459 atoms)
- (qs) C₄₆₀ (460 atoms)
- (qt) C₄₆₁ (461 atoms)
- (qu) C₄₆₂ (462 atoms)
- (qv) C₄₆₃ (463 atoms)
- (qw) C₄₆₄ (464 atoms)
- (qx) C₄₆₅ (465 atoms)
- (qy) C₄₆₆ (466 atoms)
- (qz) C₄₆₇ (467 atoms)
- (ra) C₄₆₈ (468 atoms)
- (rb) C₄₆₉ (469 atoms)
- (rc) C₄₇₀ (470 atoms)
- (rd) C₄₇₁ (471 atoms)
- (re) C₄₇₂ (472 atoms)
- (rf) C₄₇₃ (473 atoms)
- (rg) C₄₇₄ (474 atoms)
- (rh) C₄₇₅ (475 atoms)
- (ri) C₄₇₆ (476 atoms)
- (rj) C₄₇₇ (477 atoms)
- (rk) C₄₇₈ (478 atoms)
- (rl) C₄₇₉ (479 atoms)
- (rm) C₄₈₀ (480 atoms)
- (rn) C₄₈₁ (481 atoms)
- (ro) C₄₈₂ (482 atoms)
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