Figure 1 JSON:

{"objects":

[{"type":"bond","bond\_id":8,"bond\_type":"single","atoms":[3,9],"x1":728,"y1":253,"x2":839,"y2":253},

{"type":"bond","bond\_id":7,"bond\_type":"single","atoms":[2,3],"x1":579,"y1":259,"x2":728,"y2":253},

{"type":"bond","bond\_id":6,"bond\_type":"single","atoms":[2,8],"x1":579,"y1":259,"x2":575,"y2":364},

{"type":"bond","bond\_id":5,"bond\_type":"single","atoms":[2,7],"x1":579,"y1":259,"x2":579,"y2":148},

{"type":"bond","bond\_id":4,"bond\_type":"single","atoms":[1,2],"x1":453,"y1":259,"x2":579,"y2":259},

{"type":"bond","bond\_id":3,"bond\_type":"single","atoms":[1,5],"x1":453,"y1":259,"x2":449,"y2":352},

{"type":"bond","bond\_id":2,"bond\_type":"single","atoms":[1,6],"x1":453,"y1":259,"x2":456,"y2":149},

{"type":"bond","bond\_id":1,"bond\_type":"single","atoms":[1,4],"x1":453,"y1":259,"x2":345,"y2":251},

{"type":"atom","atom\_id":1,"atom\_type":"carbon","left":453,"top":259,"img":"/static/canvas/imgs/Carbon.png","num\_bonds":4,"bonds":[1,2,3,4],"charge\_label":"","hasPairs":false,"hasRad":false,"electron\_pairs":0,"radicals":0,"posCharge":false,"negCharge":false,"charge\_count":0},

{"type":"atom","atom\_id":2,"atom\_type":"carbon","left":579,"top":259,"img":"/static/canvas/imgs/Carbon.png","num\_bonds":4,"bonds":[4,5,6,7],"charge\_label":"","hasPairs":false,"hasRad":false,"electron\_pairs":0,"radicals":0,"posCharge":false,"negCharge":false,"charge\_count":0},

{"type":"atom","atom\_id":3,"atom\_type":"oxygen","left":728,"top":253,"img":"/static/canvas/imgs/Oxygen.png","num\_bonds":2,"bonds":[7,8],"charge\_label":"","hasPairs":true,"hasRad":false,"electron\_pairs":2,"radicals":0,"posCharge":false,"negCharge":false,"charge\_count":0},

{"type":"atom","atom\_id":4,"atom\_type":"hydrogen","left":345,"top":251,"img":"/static/canvas/imgs/Hydrogen.png","num\_bonds":1,"bonds":[1],"charge\_label":"","hasPairs":false,"hasRad":false,"electron\_pairs":0,"radicals":0,"posCharge":false,"negCharge":false,"charge\_count":0},

{"type":"atom","atom\_id":5,"atom\_type":"hydrogen","left":449,"top":352,"img":"/static/canvas/imgs/Hydrogen.png","num\_bonds":1,"bonds":[3],"charge\_label":"","hasPairs":false,"hasRad":false,"electron\_pairs":0,"radicals":0,"posCharge":false,"negCharge":false,"charge\_count":0},

{"type":"atom","atom\_id":6,"atom\_type":"hydrogen","left":456,"top":149,"img":"/static/canvas/imgs/Hydrogen.png","num\_bonds":1,"bonds":[2],"charge\_label":"","hasPairs":false,"hasRad":false,"electron\_pairs":0,"radicals":0,"posCharge":false,"negCharge":false,"charge\_count":0},

{"type":"atom","atom\_id":7,"atom\_type":"hydrogen","left":579,"top":148,"img":"/static/canvas/imgs/Hydrogen.png","num\_bonds":1,"bonds":[5],"charge\_label":"","hasPairs":false,"hasRad":false,"electron\_pairs":0,"radicals":0,"posCharge":false,"negCharge":false,"charge\_count":0},

{"type":"atom","atom\_id":8,"atom\_type":"hydrogen","left":575,"top":364,"img":"/static/canvas/imgs/Hydrogen.png","num\_bonds":1,"bonds":[6],"charge\_label":"","hasPairs":false,"hasRad":false,"electron\_pairs":0,"radicals":0,"posCharge":false,"negCharge":false,"charge\_count":0},

{"type":"atom","atom\_id":9,"atom\_type":"hydrogen","left":839,"top":253,"img":"/static/canvas/imgs/Hydrogen.png","num\_bonds":1,"bonds":[8],"charge\_label":"","hasPairs":false,"hasRad":false,"electron\_pairs":0,"radicals":0,"posCharge":false,"negCharge":false,"charge\_count":0}],"background":"white"}

FIGURE 2 JSON:

{"objects":

[{"type":"bond","bond\_id":8,"bond\_type":"single","atoms":[2,8],"x1":638,"y1":268,"x2":638,"y2":365},

{"type":"bond","bond\_id":7,"bond\_type":"single","atoms":[2,9],"x1":638,"y1":268,"x2":746,"y2":274},

{"type":"bond","bond\_id":6,"bond\_type":"single","atoms":[2,7],"x1":638,"y1":268,"x2":639,"y2":175},

{"type":"bond","bond\_id":5,"bond\_type":"single","atoms":[3,2],"x1":541,"y1":269,"x2":638,"y2":268},

{"type":"bond","bond\_id":4,"bond\_type":"single","atoms":[1,3],"x1":441,"y1":269,"x2":541,"y2":269},

{"type":"bond","bond\_id":3,"bond\_type":"single","atoms":[1,6],"x1":441,"y1":269,"x2":439,"y2":352},

{"type":"bond","bond\_id":2,"bond\_type":"single","atoms":[1,5],"x1":441,"y1":269,"x2":436,"y2":193},

{"type":"bond","bond\_id":1,"bond\_type":"single","atoms":[1,4],"x1":441,"y1":269,"x2":345,"y2":272},{

"type":"atom","atom\_id":1,"atom\_type":"carbon","left":441,"top":269,"img":"/static/canvas/imgs/Carbon.png","num\_bonds":4,"bonds":[1,2,3,4],"charge\_label":"","hasPairs":false,"hasRad":false,"electron\_pairs":0,"radicals":0,"posCharge":false,"negCharge":false,"charge\_count":0},

{"type":"atom","atom\_id":2,"atom\_type":"carbon","left":638,"top":268,"img":"/static/canvas/imgs/Carbon.png","num\_bonds":4,"bonds":[5,6,7,8],"charge\_label":"","hasPairs":false,"hasRad":false,"electron\_pairs":0,"radicals":0,"posCharge":false,"negCharge":false,"charge\_count":0},

{"type":"atom","atom\_id":3,"atom\_type":"oxygen","left":541,"top":269,"img":"/static/canvas/imgs/Oxygen.png","num\_bonds":2,"bonds":[4,5],"charge\_label":"","hasPairs":true,"hasRad":false,"electron\_pairs":2,"radicals":0,"posCharge":false,"negCharge":false,"charge\_count":0},

{"type":"atom","atom\_id":4,"atom\_type":"hydrogen","left":345,"top":272,"img":"/static/canvas/imgs/Hydrogen.png","num\_bonds":1,"bonds":[1],"charge\_label":"","hasPairs":false,"hasRad":false,"electron\_pairs":0,"radicals":0,"posCharge":false,"negCharge":false,"charge\_count":0},

{"type":"atom","atom\_id":5,"atom\_type":"hydrogen","left":436,"top":193,"img":"/static/canvas/imgs/Hydrogen.png","num\_bonds":1,"bonds":[2],"charge\_label":"","hasPairs":false,"hasRad":false,"electron\_pairs":0,"radicals":0,"posCharge":false,"negCharge":false,"charge\_count":0},

{"type":"atom","atom\_id":6,"atom\_type":"hydrogen","left":439,"top":352,"img":"/static/canvas/imgs/Hydrogen.png","num\_bonds":1,"bonds":[3],"charge\_label":"","hasPairs":false,"hasRad":false,"electron\_pairs":0,"radicals":0,"posCharge":false,"negCharge":false,"charge\_count":0},

{"type":"atom","atom\_id":7,"atom\_type":"hydrogen","left":639,"top":175,"img":"/static/canvas/imgs/Hydrogen.png","num\_bonds":1,"bonds":[6],"charge\_label":"","hasPairs":false,"hasRad":false,"electron\_pairs":0,"radicals":0,"posCharge":false,"negCharge":false,"charge\_count":0},

{"type":"atom","atom\_id":8,"atom\_type":"hydrogen","left":638,"top":365,"img":"/static/canvas/imgs/Hydrogen.png","num\_bonds":1,"bonds":[8],"charge\_label":"","hasPairs":false,"hasRad":false,"electron\_pairs":0,"radicals":0,"posCharge":false,"negCharge":false,"charge\_count":0},

{"type":"atom","atom\_id":9,"atom\_type":"hydrogen","left":746,"top":274,"img":"/static/canvas/imgs/Hydrogen.png","num\_bonds":1,"bonds":[7],"charge\_label":"","hasPairs":false,"hasRad":false,"electron\_pairs":0,"radicals":0,"posCharge":false,"negCharge":false,"charge\_count":0}],

"background":"white"}

FIGURE 3 JSON:

{"objects":

[{"type":"bond","bond\_id":7,"bond\_type":"single","atoms":[8,3],"x1":601,"y1":260,"x2":709,"y2":260},

{"type":"bond","bond\_id":6,"bond\_type":"single","atoms":[2,8],"x1":514,"y1":264,"x2":601,"y2":260},

{"type":"bond","bond\_id":5,"bond\_type":"single","atoms":[2,7],"x1":514,"y1":264,"x2":515,"y2":168},

{"type":"bond","bond\_id":4,"bond\_type":"single","atoms":[1,2],"x1":400,"y1":263,"x2":514,"y2":264},

{"type":"bond","bond\_id":3,"bond\_type":"single","atoms":[1,6],"x1":400,"y1":263,"x2":395,"y2":382},

{"type":"bond","bond\_id":2,"bond\_type":"single","atoms":[1,5],"x1":400,"y1":263,"x2":393,"y2":159},

{"type":"bond","bond\_id":1,"bond\_type":"single","atoms":[1,4],"x1":400,"y1":263,"x2":312,"y2":263},

{"type":"atom","atom\_id":1,"atom\_type":"carbon","left":400,"top":263,"img":"/static/canvas/imgs/Carbon.png","num\_bonds":4,"bonds":[1,2,3,4],"charge\_label":"","hasPairs":false,"hasRad":false,"electron\_pairs":0,"radicals":0,"posCharge":false,"negCharge":false,"charge\_count":0},

{"type":"atom","atom\_id":2,"atom\_type":"carbon","left":514,"top":264,"img":"/static/canvas/imgs/Carbon.png","num\_bonds":3,"bonds":[4,5,6],"charge\_label":"","hasPairs":false,"hasRad":false,"electron\_pairs":0,"radicals":0,"posCharge":false,"negCharge":false,"charge\_count":0},

{"type":"atom","atom\_id":3,"atom\_type":"oxygen","left":709,"top":260,"img":"/static/canvas/imgs/Oxygen.png","num\_bonds":1,"bonds":[7],"charge\_label":"","hasPairs":true,"hasRad":false,"electron\_pairs":2,"radicals":0,"posCharge":false,"negCharge":false,"charge\_count":0},

{"type":"atom","atom\_id":4,"atom\_type":"hydrogen","left":312,"top":263,"img":"/static/canvas/imgs/Hydrogen.png","num\_bonds":1,"bonds":[1],"charge\_label":"","hasPairs":false,"hasRad":false,"electron\_pairs":0,"radicals":0,"posCharge":false,"negCharge":false,"charge\_count":0},

{"type":"atom","atom\_id":5,"atom\_type":"hydrogen","left":393,"top":159,"img":"/static/canvas/imgs/Hydrogen.png","num\_bonds":1,"bonds":[2],"charge\_label":"","hasPairs":false,"hasRad":false,"electron\_pairs":0,"radicals":0,"posCharge":false,"negCharge":false,"charge\_count":0},

{"type":"atom","atom\_id":6,"atom\_type":"hydrogen","left":395,"top":382,"img":"/static/canvas/imgs/Hydrogen.png","num\_bonds":1,"bonds":[3],"charge\_label":"","hasPairs":false,"hasRad":false,"electron\_pairs":0,"radicals":0,"posCharge":false,"negCharge":false,"charge\_count":0},

{"type":"atom","atom\_id":7,"atom\_type":"hydrogen","left":515,"top":168,"img":"/static/canvas/imgs/Hydrogen.png","num\_bonds":1,"bonds":[5],"charge\_label":"","hasPairs":false,"hasRad":false,"electron\_pairs":0,"radicals":0,"posCharge":false,"negCharge":false,"charge\_count":0},

{"type":"atom","atom\_id":8,"atom\_type":"hydrogen","left":601,"top":260,"img":"/static/canvas/imgs/Hydrogen.png","num\_bonds":2,"bonds":[6,7],"charge\_label":"","hasPairs":false,"hasRad":false,"electron\_pairs":0,"radicals":0,"posCharge":false,"negCharge":false,"charge\_count":0},

"background":"white"}

FIGURE 4 JSON:

{"objects":

[{"type":"bond","bond\_id":7,"bond\_type":"single","atoms":[8,3],"x1":680,"y1":244,"x2":813,"y2":238},

{"type":"bond","bond\_id":6,"bond\_type":"single","atoms":[2,8],"x1":539,"y1":248,"x2":680,"y2":244},

{"type":"bond","bond\_id":5,"bond\_type":"single","atoms":[2,7],"x1":539,"y1":248,"x2":545,"y2":154},

{"type":"bond","bond\_id":4,"bond\_type":"single","atoms":[1,2],"x1":426,"y1":253,"x2":539,"y2":248},

{"type":"bond","bond\_id":3,"bond\_type":"single","atoms":[1,6],"x1":426,"y1":253,"x2":423,"y2":351},

{"type":"bond","bond\_id":2,"bond\_type":"single","atoms":[1,4],"x1":426,"y1":253,"x2":314,"y2":254},

{"type":"bond","bond\_id":1,"bond\_type":"single","atoms":[1,5],"x1":426,"y1":253,"x2":418,"y2":144},

{"type":"atom","atom\_id":1,"atom\_type":"carbon","left":426,"top":253,"img":"/static/canvas/imgs/Carbon.png","num\_bonds":4,"bonds":[1,2,3,4],"charge\_label":"","hasPairs":false,"hasRad":false,"electron\_pairs":0,"radicals":0,"posCharge":false,"negCharge":false,"charge\_count":0},

{"type":"atom","atom\_id":2,"atom\_type":"carbon","left":539,"top":248,"img":"/static/canvas/imgs/Carbon.png","num\_bonds":3,"bonds":[4,5,6],"charge\_label":"","hasPairs":false,"hasRad":false,"electron\_pairs":0,"radicals":0,"posCharge":false,"negCharge":false,"charge\_count":0},

{"type":"atom","atom\_id":3,"atom\_type":"oxygen","left":813,"top":238,"img":"/static/canvas/imgs/Oxygen.png","num\_bonds":1,"bonds":[7],"charge\_label":"","hasPairs":true,"hasRad":false,"electron\_pairs":3,"radicals":0,"posCharge":false,"negCharge":false,"charge\_count":0},

{"type":"atom","atom\_id":4,"atom\_type":"hydrogen","left":314,"top":254,"img":"/static/canvas/imgs/Hydrogen.png","num\_bonds":1,"bonds":[2],"charge\_label":"","hasPairs":false,"hasRad":false,"electron\_pairs":0,"radicals":0,"posCharge":false,"negCharge":false,"charge\_count":0},

{"type":"atom","atom\_id":5,"atom\_type":"hydrogen","left":418,"top":144,"img":"/static/canvas/imgs/Hydrogen.png","num\_bonds":1,"bonds":[1],"charge\_label":"","hasPairs":false,"hasRad":false,"electron\_pairs":0,"radicals":0,"posCharge":false,"negCharge":false,"charge\_count":0},

{"type":"atom","atom\_id":6,"atom\_type":"hydrogen","left":423,"top":351,"img":"/static/canvas/imgs/Hydrogen.png","num\_bonds":1,"bonds":[3],"charge\_label":"","hasPairs":false,"hasRad":false,"electron\_pairs":0,"radicals":0,"posCharge":false,"negCharge":false,"charge\_count":0},

{"type":"atom","atom\_id":7,"atom\_type":"hydrogen","left":545,"top":154,"img":"/static/canvas/imgs/Hydrogen.png","num\_bonds":1,"bonds":[5],"charge\_label":"","hasPairs":false,"hasRad":false,"electron\_pairs":0,"radicals":0,"posCharge":false,"negCharge":false,"charge\_count":0},

{"type":"atom","atom\_id":8,"atom\_type":"hydrogen","left":680,"top":244,"img":"/static/canvas/imgs/Hydrogen.png","num\_bonds":2,"bonds":[6,7],"charge\_label":"","hasPairs":false,"hasRad":false,"electron\_pairs":0,"radicals":0,"posCharge":false,"negCharge":false,"charge\_count":0}],"background":"white"}

FIGURE 5:

{"objects":[{"type":"bond","bond\_id":8,"bond\_type":"single","atoms":[3,9],"x1":652,"y1":273,"x2":772,"y2":265},{"type":"bond","bond\_id":7,"bond\_type":"double","atoms":[2,3],"x1":534,"y1":275,"x2":652,"y2":273},{"type":"bond","bond\_id":6,"bond\_type":"single","atoms":[2,8],"x1":534,"y1":275,"x2":539,"y2":382},{"type":"bond","bond\_id":5,"bond\_type":"single","atoms":[2,7],"x1":534,"y1":275,"x2":532,"y2":169},{"type":"bond","bond\_id":4,"bond\_type":"single","atoms":[1,2],"x1":407,"y1":280,"x2":534,"y2":275},{"type":"bond","bond\_id":3,"bond\_type":"single","atoms":[1,6],"x1":407,"y1":280,"x2":407,"y2":388},{"type":"bond","bond\_id":2,"bond\_type":"single","atoms":[1,4],"x1":407,"y1":280,"x2":401,"y2":171},{"type":"bond","bond\_id":1,"bond\_type":"single","atoms":[1,5],"x1":407,"y1":280,"x2":299,"y2":279},{"type":"atom","atom\_id":1,"atom\_type":"carbon","left":407,"top":280,"img":"/static/canvas/imgs/Carbon.png","num\_bonds":4,"bonds":[1,2,3,4],"charge\_label":"","hasPairs":false,"hasRad":false,"electron\_pairs":0,"radicals":0,"posCharge":false,"negCharge":false,"charge\_count":0},{"type":"atom","atom\_id":2,"atom\_type":"carbon","left":534,"top":275,"img":"/static/canvas/imgs/Carbon.png","num\_bonds":4,"bonds":[4,5,6,7],"charge\_label":"","hasPairs":false,"hasRad":false,"electron\_pairs":0,"radicals":0,"posCharge":false,"negCharge":false,"charge\_count":0},{"type":"atom","atom\_id":3,"atom\_type":"oxygen","left":652,"top":273,"img":"/static/canvas/imgs/Oxygen.png","num\_bonds":2,"bonds":[7,8],"charge\_label":"","hasPairs":true,"hasRad":false,"electron\_pairs":1,"radicals":0,"posCharge":false,"negCharge":false,"charge\_count":0},{"type":"atom","atom\_id":4,"atom\_type":"hydrogen","left":401,"top":171,"img":"/static/canvas/imgs/Hydrogen.png","num\_bonds":1,"bonds":[2],"charge\_label":"","hasPairs":false,"hasRad":false,"electron\_pairs":0,"radicals":0,"posCharge":false,"negCharge":false,"charge\_count":0},{"type":"atom","atom\_id":5,"atom\_type":"hydrogen","left":299,"top":279,"img":"/static/canvas/imgs/Hydrogen.png","num\_bonds":1,"bonds":[1],"charge\_label":"","hasPairs":false,"hasRad":false,"electron\_pairs":0,"radicals":0,"posCharge":false,"negCharge":false,"charge\_count":0},{"type":"atom","atom\_id":6,"atom\_type":"hydrogen","left":407,"top":388,"img":"/static/canvas/imgs/Hydrogen.png","num\_bonds":1,"bonds":[3],"charge\_label":"","hasPairs":false,"hasRad":false,"electron\_pairs":0,"radicals":0,"posCharge":false,"negCharge":false,"charge\_count":0},{"type":"atom","atom\_id":7,"atom\_type":"hydrogen","left":532,"top":169,"img":"/static/canvas/imgs/Hydrogen.png","num\_bonds":1,"bonds":[5],"charge\_label":"","hasPairs":false,"hasRad":false,"electron\_pairs":0,"radicals":0,"posCharge":false,"negCharge":false,"charge\_count":0},{"type":"atom","atom\_id":8,"atom\_type":"hydrogen","left":539,"top":382,"img":"/static/canvas/imgs/Hydrogen.png","num\_bonds":1,"bonds":[6],"charge\_label":"","hasPairs":false,"hasRad":false,"electron\_pairs":0,"radicals":0,"posCharge":false,"negCharge":false,"charge\_count":0},{"type":"atom","atom\_id":9,"atom\_type":"hydrogen","left":772,"top":265,"img":"/static/canvas/imgs/Hydrogen.png","num\_bonds":1,"bonds":[8],"charge\_label":"","hasPairs":false,"hasRad":false,"electron\_pairs":0,"radicals":0,"posCharge":false,"negCharge":false,"charge\_count":0}],"background":"white"}