Combined In-Class- Exercise: Inorganic Nomenclature and Identifying Point groups

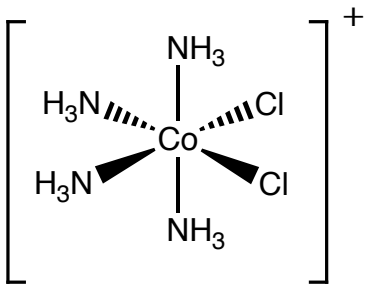
Created by Sheila Smith, University of Michigan- Dearborn (sheilars@umd.umich.edu) and posted on VIPEr (www.ionicviper.org) on January 25, 2012.

Given either the name, the formula or the structure, please supply the others. Identify the point group of the molecule, with supporting information.

Complex Name:_____

Formula:_____ _____

Point group assignment: _____



Complex Name:____mer-triamminetrinitritocobalt (III)____ _____

Formula:_____

Point group assignment: ___ _____

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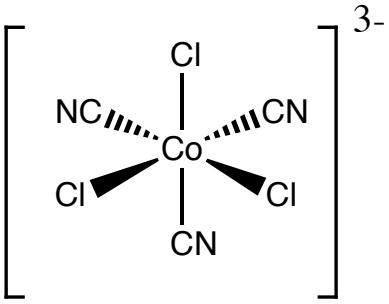
Formula:_____

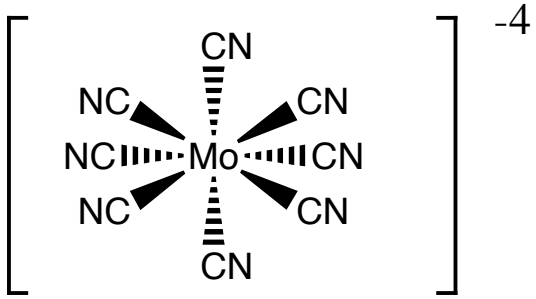
Point group assignment: _____



Complex Name:_____(staggered conformation)___

Formula:_____ _____

Point group assignment: _____



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Complex Name:__μ-oxo-bis(pentamminechromium (III))__(eclipsed conformation)___

Formula:_____

Point group assignment: _____

Complex Name:___decacarbonyldichromate (-1) ion___(staggered conformation)__

Formula:_____ _____

Point group assignment: ____ _____ _____

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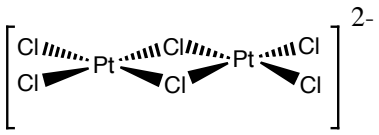
Complex Name:_____

Formula:____ _____

Point group assignment: _____

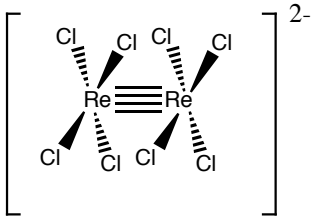


(planar molecule)

Complex Name:_____

Formula:_____ _____

Point group assignment: _____



eclipsed conformation