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L-DOPA (3,4-dihydroxy-L-phenylalanine, (S)-2-amino-3-(4,5-dihydroxyphenyl)propanoic acid) is shown in its protonated form found at low pH. L-DOPA is an intermediate in the biosynthesis of dopamine, an important molecule for proper neuron and brain function. It is a chiral molecule because it contains a chiral carbon (shown in green). Because L-DOPA is chiral, there is a corresponding enantiomer called D-DOPA (shown as the reflection in the mirror), which has the same connectivity of atoms but different "handedness" about the chiral atom. Analogous to your left and right hands, L-DOPA and D-DOPA are nonsuperposable mirror images of each other. Chirality is a key concept in organic chemistry, especially when considering biological activity. Because many chiral molecules have very different medicinal properties compared to their mirror image versions, for example, L-DOPA is used clinically in the treatment of Parkinson's disease, while D-DOPA is not active.

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web the specification defines the requirements for aisi 4145 hot rolled crmo bars hardened and tempered to meet either 110ksi 120ksi or 125ksi minimum yield strength steel manufacture steel is manufactured via electric arc furnace followed by

ladle refining and vacuum degassing and is either cast into bottom

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web jun 1 2023 aisi 4145 exhibits excellent strength toughness and wear resistance as a low alloy steel grade the minimum yield strength of aisi 4145 is 89 ksi while the ultimate tensile strength is between 125 140 ksi depending on the heat treatment conditions

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web as compared to 4140 the 4145 mod grade has higher levels of chromium and molybdenum which will provide much deeper hardening into the steel after austenitizing quenching and tempering this alloy should not be confused with aisi 4145 as the chemical limits for the modified version are much higher