

# [Carboplatin c6h12n2o4pt structure](https://assignbuster.com/carboplatin-c6h12n2o4pt-structure/)

Contents

* Bio Activity:

|  |  |
| --- | --- |
| Molecular Formula | C 6 H 12 N 2 O 4 Pt |
| Average mass | 371. 254 Da |
| Density |  |
| Boiling Point |  |
| Flash Point |  |
| Molar Refractivity |  |
| Polarizability |  |
| Surface Tension |  |
| Molar Volume |  |

* Experimental data
* Predicted – ACD/Labs
* Predicted – ChemAxon
* Experimental Physico-chemical Properties

## Experimental Melting Point:

|  |
| --- |
| 228-230 °CLKT Labs[C0171] |

## Experimental Solubility:

|  |
| --- |
| 10 mM in DMSOMedChem ExpressHY-17393 |
| DMSO < 1mg/ml; Water <1 mg/mlMedChem Expresshttp://www. medchemexpress. com/levomefolate-calcium. html |
| Soluble in water. LKT Labs[C0171] |

* Miscellaneous

## Safety:

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| --- |
| DangerBiosynthW-106301 |
| GHS07; GHS08BiosynthW-106301 |
| H302; H312; H332; H317; H334; H360BiosynthW-106301 |
| H340 H360D H302 H332 H334 H317LKT Labs[C0171] |
| Not dangerous goods. LKT Labs[C0171] |
| P201; P261; P280; P308+P313BiosynthW-106301 |
| R46; R61; R20/21; R42/43LKT Labs[C0171] |
| Xn, Carc., Repr. LKT Labs[C0171] |

## Compound Source:

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| syntheticMicrosource[01502106] |

## Bio Activity:

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| Carboplatin is a chemotherapy drug by binding to DNA and interfering with the cell’s repair mechanism.; IC50 Value: ; Target: DNA crosslinker; in vitro: Carboplatin exhibits an inhibitory effect on cell proliferation in a human ovarian cancer cell line panel, including A2780, SKOV3, and IGROV-1 cells with IC50 of 6. 1 ? M, 12. 4 ? M and 2. 2 ? M, respectively [1]. MedChem ExpressHY-17393 |
| Cell Cycle/DNA DamageMedChem ExpressHY-17393 |
| Cell Cycle/DNA Damage; MedChem ExpressHY-17393 |
| DNA alkylator/crosslinkerMedChem ExpressHY-17393 |

Predicted data is generated using the ACD/Labs Percepta Platform – PhysChem Module

No predicted properties have been calculated for this compound.

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| --- | --- |
| Density: |  |
| Boiling Point: |  |
| Vapour Pressure: |  |
| Enthalpy of Vaporization: |  |
| Flash Point: |  |
| Index of Refraction: |  |
| Molar Refractivity: |  |
| #H bond acceptors: |  |
| #H bond donors: |  |
| #Freely Rotating Bonds: |  |
| #Rule of 5 Violations: |  |

|  |  |
| --- | --- |
| ACD/LogP: |  |
| ACD/LogD (pH 5. 5): |  |
| ACD/BCF (pH 5. 5): |  |
| ACD/KOC (pH 5. 5): |  |
| ACD/LogD (pH 7. 4): |  |
| ACD/BCF (pH 7. 4): |  |
| ACD/KOC (pH 7. 4): |  |
| Polar Surface Area: |  |
| Polarizability: |  |
| Surface Tension: |  |
| Molar Volume: |  |

Click to predict properties on the Chemicalize site