

Carboplatin

C6H12N2O4Pt
structure



**ASSIGN
BUSTER**

Contents

- Bio Activity:

Molecular C₆ H₁₂ N₂ O

Formula 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

Express[http://ww](http://www.medchemexpress.com/levomefolate-calcium.html)

w.

medchemexpress

.

com/levomefolate

-calcium. html

Soluble in water.

LKT Labs[C0171]

- Miscellaneous

- **Safety:**

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+P313Biosyn

thW-106301

R46; R61; R20/21;

R42/43LKT

Labs[C0171]

Xn, Carc., Repr.

LKT Labs[C0171]

- **Compound Source:**

syntheticMicrosource[0150
2106]

- **Bio Activity:**

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 μ M,
12.4 μ M and
2.2 μ M,
respectively [1].

MedChem
ExpressHY-17393

Cell Cycle/DNA
DamageMedChem
ExpressHY-
17393

Cell Cycle/DNA
Damage;
MedChem
ExpressHY-17393

DNA
alkylator/crosslink
erMedChem
ExpressHY-17393

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

No predicted properties have been calculated for this compound.

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