VERA: Similarity and Grouping:



Molecule Input: TotGroups: 2

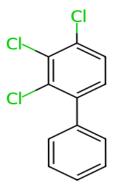
['benzene', 'Ar_Cl_Br']

LogP: 5.314

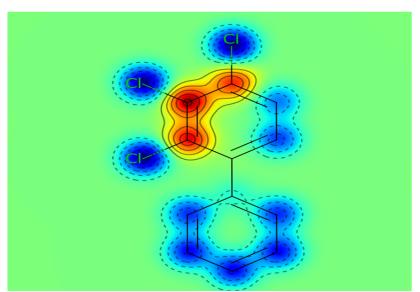
MaxPartialCharge: 0.078
MinPartialCharge: -0.083
NumHAcceptors: 0
NumHDonors: 0
NumRotatableBonds: 1
NumAliphaticRings: 0
NumAromaticCarbocycles: 2
NumAromaticHeterocycles: 0
NumAromaticRings: 2
ExactMolWt: 255.961

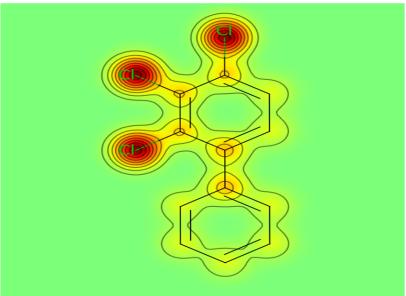
GasteigerCharges:

CrippenContribs:



Prediction from Linear model: 0.048 -log(mg/l)





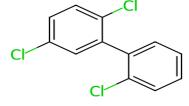
Molecules with the highest group similarity

1) SMILES: Clc1ccc(Cl)c(-c2cccc2Cl)c1

ExpValue: 1.472 -log(mg/l) SimilarityVega: 0.975 SimilarityGrouping: 0.875 Grp_Similarity_Mean: 0.925 Groups in common: 3

TotGroups 3

GROUPS: Ar_Cl_Br Stat: Tox Alerts: []





2) SMILES: Clc1cccc(Cl)c1Cl ExpValue: -0.338 -log(mg/l) SimilarityVega: 0.781 SimilarityGrouping: 0.875 Grp_Similarity_Mean: 0.828 Groups in common: 3

TotGroups 3 GROUPS:

Ar_Cl_Br Stat: Tox Alerts: []



3) SMILES: Clc1ccc(Cl)c(Cl)c1 ExpValue: -0.412 -log(mg/l) SimilarityVega: 0.78 SimilarityGrouping: 0.875 Grp_Similarity_Mean: 0.828 Groups in common: 3

TotGroups 3

GROUPS: Ar_Cl_Br Stat: Tox

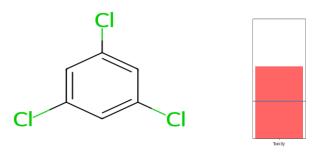
Alerts: []



4) SMILES: Clc1cc(Cl)cc(Cl)c1 ExpValue: -0.512 -log(mg/l) SimilarityVega: 0.773 SimilarityGrouping: 0.875 Grp_Similarity_Mean: 0.824 Groups in common: 3

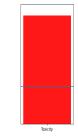
TotGroups 3 GROUPS: Ar_Cl_Br Stat: Tox

Alerts: []



5) SMILES: O=C(Nc1ccc(CI)cc1)Nc1ccc(CI)c(CI)c1

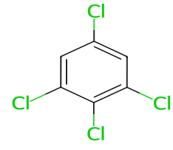
ExpValue: 1.043 -log(mg/l) SimilarityVega: 0.76 SimilarityGrouping: 0.844 Grp_Similarity_Mean: 0.802 Groups in common: 3 TotGroups 4 GROUPS: urea Stat: Tox Ar_Cl_Br Stat: Tox Alerts: []



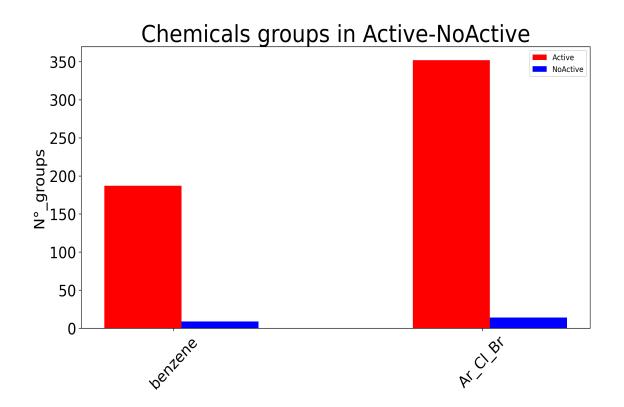
6) SMILES: Clc1cc(Cl)c(Cl)c(Cl)c1

ExpValue: 0.098 -log(mg/l) SimilarityVega: 0.758 SimilarityGrouping: 0.844 Grp_Similarity_Mean: 0.801 Groups in common: 3

TotGroups 4 GROUPS: Ar_Cl_Br Stat: Tox Alerts: []





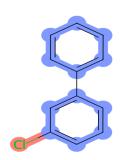


Reasoning

Ortogonal Research based on copresence of group with high prevalence Ar_Cl_Br and GRP benzene

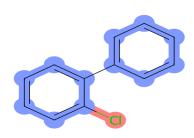
Smile: Clc1cccc(-c2cccc2)c1 ExpValue: -0.894 -log(mg/l)

Similarity: 0.864



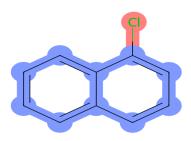
Smile: Clc1ccccc1-c1ccccc1 ExpValue: -0.604 -log(mg/l)

Similarity: 0.864



Smile: Clc1ccc2cccc12 ExpValue: -0.23 -log(mg/l)

Similarity: 0.761



Smile: COC(=O)C1(O)c2cccc2-c2ccc(CI)cc21

ExpValue: -0.158 -log(mg/l)

Similarity: 0.749



Smile: O=C(NC(=O)c1c(F)cccc1F)Nc1ccc(Cl)cc1

ExpValue: -2.631 -log(mg/l)

Similarity: 0.722



Smile:

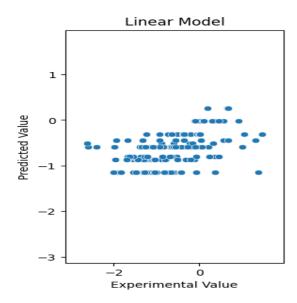
O = C1c2cccc2C(=O)C1C(=O)C(c1ccccc1)c1ccc(CI)cc1

ExpValue: 0.328 -log(mg/l)

Similarity: 0.678

Local Linear Model

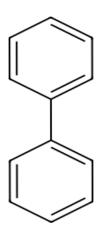
The target assessment was made by using Linear model model not by this Local model



Mean square error: 0.46

Scaffold

Scaffold analysis



Smile: Clc1ccc(Cl)c(-c2cccc2Cl)c1 ExpValue: 1.472 -log(mg/l)

Similarity: 0.975

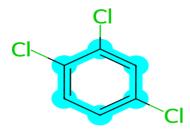
Smile: Clc1ccc(Cl)c1Cl ExpValue: -0.338 -log(mg/l)

Similarity: 0.781



Smile: Clc1ccc(Cl)c(Cl)c1 ExpValue: -0.412 -log(mg/l)

Similarity: 0.78



Smile: Clc1cc(Cl)cc(Cl)c1 ExpValue: -0.512 -log(mg/l)

Similarity: 0.773



Descriptors

Calculator Similarity descriptor

Smile: Clc1ccc(Cl)c(-c2cccc2Cl)c1

ExpValue: 1.472 -log(mg/l) DistanceCityBlock: 0.285 LogP:5.31380000000000 MW: 255.961333264

Smile: Clc1cccc(-c2cccc2)c1 ExpValue: -0.894 -log(mg/l) DistanceCityBlock: 3.002 LogP:4.007000000000002 MW: 188.039277968

Smile: CCc1ccc(-c2cccc2)cc1 ExpValue: 0.223 -log(mg/l) DistanceCityBlock: 4.554 LogP:3.916000000000002 MW: 182.109550448

Smile: Clc1ccccc1-c1ccccc1 ExpValue: -0.604 -log(mg/l) DistanceCityBlock: 2.931 LogP:4.007000000000002 MW: 188.039277968

Smile: Clc1ccc(C(c2ccc(Cl)cc2)C(Cl)Cl)cc1

ExpValue: -0.642 -log(mg/l) DistanceCityBlock: 3.631 LogP:5.929000000000002 MW: 317.95366104

Smile: Clc1ccc2cccc12 ExpValue: -0.23 -log(mg/l) DistanceCityBlock: 4.638 LogP:3.4932000000000016 MW: 162.023627904