VERA: Similarity and Grouping:



Molecule Input: TotGroups: 2

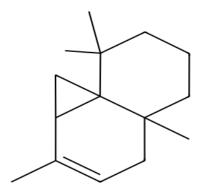
['allylic_oxid', 'CC4']

LogP: 4.559

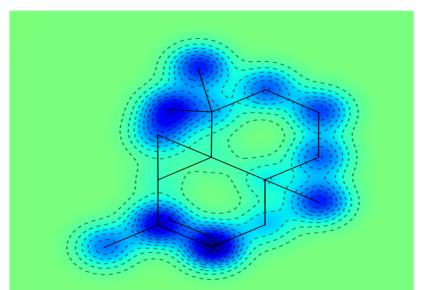
MaxPartialCharge: -0.012
MinPartialCharge: -0.085
NumHAcceptors: 0
NumHDonors: 0
NumRotatableBonds: 0
NumAliphaticRings: 3
NumAromaticCarbocycles: 0
NumAromaticHeterocycles: 0
NumAromaticRings: 0
ExactMolWt: 204.188

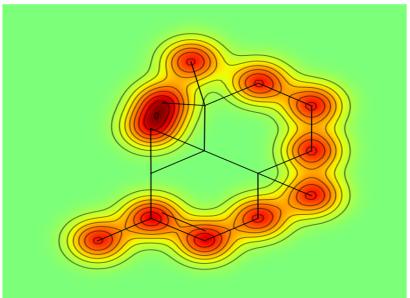






Prediction from Global model: 0.493 -log(mg/l)





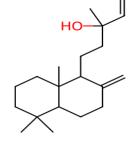
Molecules with the highest group similarity

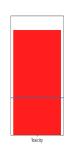
1) SMILES: C=CC(C)(O)CCC1C(=C)CCC2C(C)(C)CCCC12C

ExpValue: 0.92 -log(mg/l) SimilarityVega: 0.753 SimilarityGrouping: 0.817 Grp_Similarity_Mean: 0.785 Groups in common: 4 TotGroups 9

GROUPS: Al_OH Stat: Neutro
allylic_oxid Stat: Tox
CH2_Terminal Stat: Tox
CC4 Stat: Tox
Al_bito: II

Alerts: []





2) SMILES: CC1=CC(=O)CC(C)(C)C1

ExpValue: -2.4 -log(mg/l)

SimilarityVega: 0.694000000000001

SimilarityGrouping: 0.706 Grp_Similarity_Mean: 0.7 Groups in common: 3 TotGroups 4

GROUPS:

allylic_oxid Stat: Tox CĆ4 Stat: Tox

ketone_aliphatic Stat: Neutro

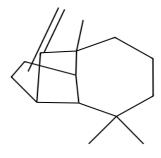


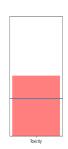
3) SMILES: C=C1C2CCC3C2C(C)(C)CCCC13C

ExpValue: -1.01 -log(mg/l) SimilarityVega: 0.93 SimilarityGrouping: 0.7 Grp_Similarity_Mean: 0.815 Groups in common: 3 TotGroups 5

GROUPS:

allylic_oxid Stat: Tox
CH2_Terminal Stat: Tox
CC4 Stat: Tox Alerts: []



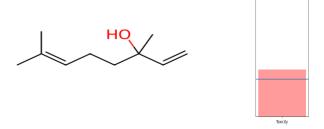


4) SMILES: C=CC(C)(O)CCC=C(C)C

ExpValue: -1.589 -log(mg/l) SimilarityVega: 0.661 SimilarityGrouping: 0.7 Grp_Similarity_Mean: 0.68 Groups in common: 3

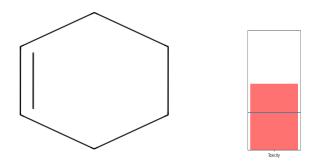
TotGroups 5 GROUPS:
Al_OH Stat: Neutro
allylic_oxid Stat: Tox
CH2_Terminal Stat: Tox
CC4 Stat: Tox
Alorte: II

Alerts: []



5) SMILES: C1=CCCCC1 ExpValue: -0.762 -log(mg/l) SimilarityVega: 0.752 SimilarityGrouping: 0.7 Grp_Similarity_Mean: 0.726 Groups in common: 2 TotGroups 2

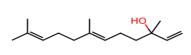
GROUPS: allylic_oxid Stat: Tox Alerts: []



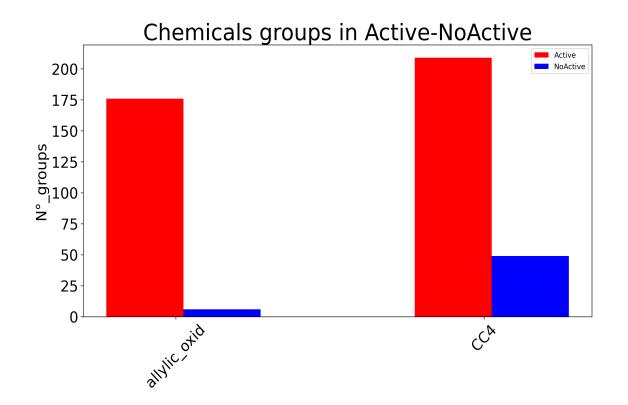
6) SMILES: C=CC(C)(O)CCC=C(C)CCC=C(C)C

ExpValue: -0.155 -log(mg/l) SimilarityVega: 0.712 SimilarityGrouping: 0.693 Grp_Similarity_Mean: 0.702 Groups in common: 3 TotGroups 7

GROUPS:
Al_OH Stat: Neutro
allylic_oxid Stat: Tox
CH2_Terminal Stat: Tox
CC4 Stat: Tox
Alerts: []







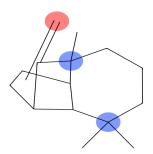
Reasoning

Ortogonal Research based on copresence of group with high prevalence allylic_oxid and GRP CC4

Smile: C=C1C2CCC3C2C(C)(C)CCCC13C

ExpValue: -1.01 -log(mg/l)

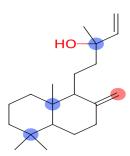
Similarity: 0.93



Smile: C=CC(C)(O)CCC1C(=C)CCC2C(C)(C)CCCC12C

ExpValue: 0.92 -log(mg/l)

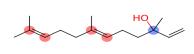
Similarity: 0.753



Smile: C=CC(C)(O)CCC=C(C)CCC=C(C)C

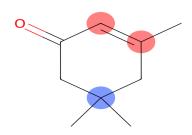
ExpValue: -0.155 -log(mg/l)

Similarity: 0.712



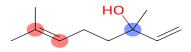
Smile: CC1=CC(=O)CC(C)(C)C1 ExpValue: -2.4 -log(mg/l)

Similarity: 0.694000000000001



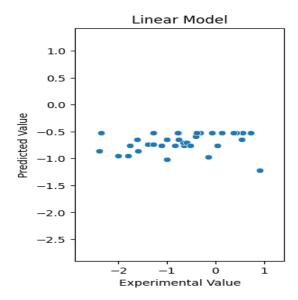
Smile: C=CC(C)(O)CCC=C(C)C ExpValue: -1.589 -log(mg/l)

Similarity: 0.661



Local Linear Model

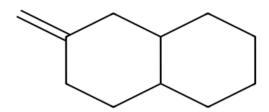
The target assessment was made by using Global model model not by this Local model



Mean square error: 0.72

Scaffold

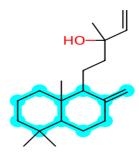
Scaffold analysis



Smile: C = CC(C)(O)CCC1C(=C)CCC2C(C)(C)CCCC12C

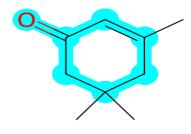
ExpValue: 0.92 -log(mg/l)

Similarity: 0.753



Smile: CC1=CC(=O)CC(C)(C)C1 ExpValue: -2.4 -log(mg/l)

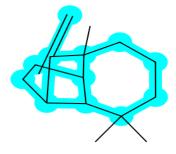
Similarity: 0.694000000000001



Smile: C=C1C2CCC3C2C(C)(C)CCCC13C

ExpValue: -1.01 -log(mg/l)

Similarity: 0.93



Smile: C=CC(C)(O)CCC=C(C)C ExpValue: -1.589 -log(mg/l)

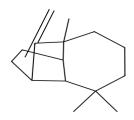
Similarity: 0.661

Descriptors

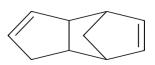
Calculator Similarity descriptor

Smile: C=C1C2CCC3C2C(C)(C)CCCC13C

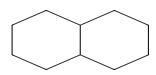
ExpValue: -1.01 -log(mg/l)
DistanceCityBlock: 0.324
LogP:4.415000000000004
MW: 204.187800768



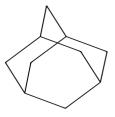
Smile: C1=CC2C3C=CC(C3)C2C1 ExpValue: -1.771 -log(mg/l) DistanceCityBlock: 4.126 LogP:2.384600000000007 MW: 132.093900384



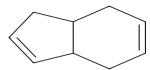
Smile: C1CCC2CCCC2C1 ExpValue: 0.433 -log(mg/l) DistanceCityBlock: 4.426 LogP:3.3668000000000022 MW: 138.140850576



Smile: C1C2CC3CC1CC(C2)C3 ExpValue: 0.553 -log(mg/l) DistanceCityBlock: 5.146 LogP:2.83260000000001 MW: 136.125200512



Smile: C1=CCC2CC=CC2C1 ExpValue: -0.642 -log(mg/l) DistanceCityBlock: 5.156 LogP:2.528700000000006 MW: 120.093900384



Smile: CC=C1CC2C=CC1C2 ExpValue: -0.844 -log(mg/l) DistanceCityBlock: 5.255 LogP:2.528700000000006 MW: 120.093900384

