Oxadiazon

Other names: 1,3,4-Oxadiazol-2(3H)-one, 3-[2,4-dichloro-5-(1-methylethoxy)phenyl]-5-(1,1-dimethylethyl)-
1,3,4-Oxazol-2(3H)-one, 3-(2,4-dichloro-5-(1-methylethoxy)phenyl)-5-(1,1-dimethylethyl)-
17623 RP
2-tert-Butyl-4-(2,4-dichloro-5-isopropyloxyphenyl)-1,3,4-oxadiazolin-5-one
3-(2,4-Dichloro-5-isopropyloxy-phenyl)-«delta»4-5-(tert-butyl)-1,3,4-oxadiazoline-2-one
3-(2,4-Dichloro-5-isopropyloxy-phenyl)-Â«deltaÂ»4-5-(tert-butyl)-1,3,4-oxadiazoline-2-one
3-[2,4-Dichloro-5-(1-methylethoxy)phenyl]-5-(1,1-dimethylethyl)-1,3,4-oxadiazol-2(3H)-on
5-tert-butyl-3-(2,4-dichloro-5-propan-2-yloxyphenyl)-1,3,4-oxadiazol-2-one
G 315
Oxadiazone
Oxydiazon
RP 17,623
RP 17623
Ronstar
Ronstar 50W
Scotts OH I
«DELTA»2-1,3,4-Oxadiazolin-5-one, 2-tert-butyl-4-(2,4-dichloro-5-isopropoxyphenyl)-
«DELTA»2-1,3,4-Oxadiazolin-5-one, 2-tert-butyl-4-(2,4-dichloro-5-isopropyloxyphenyl)-
A«DELTAA»2-1,3,4-Oxadiazolin-5-one, 2-tert-butyl-4-(2,4-dichloro-5-isopropoxyphenyl)-
A«DELTAA»2-1,3,4-Oxadiazolin-5-one, 2-tert-butyl-4-(2,4-dichloro-5-isopropyloxyphenyl)-

Inchi: InChI=1S/C15H18Cl2N2O3/c1-8(2)21-12-7-11(9(16)6-10(12)17)19-14(20)22-13(18-19)15

InchiKey: CHNUNORXWHYHNE-UHFFFAOYSA-N

Formula: C15H18Cl2N2O3

SMILES: CC(C)Oc1cc(-n2nc(C(C)(C)C)oc2=O)c(Cl)cc1Cl

Mol. weight [g/mol]: 345.22

CAS: 19666-30-9

Physical Properties

Property code	Value	Unit	Source
log10ws	-5.69		Aqueous Solubility Prediction Method
log10ws	-5.70		Estimated Solubility Method
logp	4.217		Crippen Method
mcvol	241.040	ml/mol	McGowan Method
rinpol	2189.00		NIST Webbook
rinpol	2159.00		NIST Webbook

rinpol	2200.00		NIST Webbook
rinpol	2182.00		NIST Webbook
rinpol	2186.00		NIST Webbook
rinpol	2182.00		NIST Webbook
rinpol	2189.00		NIST Webbook
rinpol	2198.00		NIST Webbook
rinpol	2189.00		NIST Webbook
rinpol	2187.00		NIST Webbook
rinpol	2182.00		NIST Webbook
rinpol	2138.00		NIST Webbook
rinpol	2182.00		NIST Webbook
ripol	2948.00		NIST Webbook
tf	361.25 ± 0.20	K	NIST Webbook

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
hfust	26.39	kJ/mol	360.60	NIST Webbook

Sources

Crippen Method: http://pubs.acs.org/doi/abs/10.1021/ci990307l
Aqueous Solubility Prediction Method: http://onschallenge.wikispaces.com/file/view/AqueousDataset002.xlsx/351826032/AqueousDa
Estimated Solubility Method: http://pubs.acs.org/doi/suppl/10.1021/ci034243x/suppl_file/ci034243xsi20040112_053635.txt
McGowan Method: http://link.springer.com/article/10.1007/BF02311772
NIST Webbook: http://webbook.nist.gov/cgi/cbook.cgi?ID=C19666309&Units=SI

Legend

hfust: Enthalpy of fusion at a given temperature
log10ws: Log10 of Water solubility in mol/l
logp: Octanol/Water partition coefficient
mcvol: McGowan's characteristic volume
rinpol: Non-polar retention indices
ripol: Polar retention indices

tf: Normal melting (fusion) point