2,4-Imidazolidinedione, 1,3-diethyl-5,5-diphenyl-

Other names: Phenytoin perethylated
Inchi: InChI=1S/C19H20N2O2/c1-3-20-17(22)19(21(4-2)18(20)23,15-11-7-5-8-12-15)16-13-9-6
InchiKey: MBPAFXVXFARGCF-UHFFFAOYSA-N
Formula: C19H20N2O2
SMILES: CCN1C(=O)N(CC)C(c2ccccc2)(c2ccccc2)C1=O
Mol. weight [g/mol]: 308.37
CAS: 54964-77-1

Physical Properties

Property code	Value	Unit	Source
log10ws	-3.82		Crippen Method
logp	3.234		Crippen Method
mcvol	243.290	ml/mol	McGowan Method
rinpol	2295.00		NIST Webbook
rinpol	2295.00		NIST Webbook

Sources

NIST Webbook: http://webbook.nist.gov/cgi/cbook.cgi?ID=C54964771&Units=SI
Crippen Method: http://pubs.acs.org/doi/abs/10.1021/ci990307l
Crippen Method: https://www.chemeo.com/doc/models/crippen_log10ws
McGowan Method: http://link.springer.com/article/10.1007/BF02311772

Legend

log10ws: Log10 of Water solubility in mol/l
logp: Octanol/Water partition coefficient
mcvol: McGowan's characteristic volume
rinpol: Non-polar retention indices

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