Phenylphosphonic acid, dodecyl ethyl ester

Inchi: InChI=1S/C20H35O3P/c1-3-5-6-7-8-9-10-11-12-16-19-23-24(21,22-4-2)20-17-14-13-15-1
InchiKey: LTMDCKBIRJFSSV-UHFFFAOYSA-N
Formula: C20H35O3P
SMILES: CCCCCCCCCCCCOP(=O)(OCC)c1ccccc1
Mol. weight [g/mol]: 354.46

Physical Properties

Property code	Value	Unit	Source
log10ws	-12.13		Crippen Method
logp	6.479		Crippen Method
mcvol	306.970	ml/mol	McGowan Method
rinpol	2538.00		NIST Webbook
rinpol	2538.00		NIST Webbook

Sources

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
NIST Webbook: http://webbook.nist.gov/cgi/cbook.cgi?ID=U393239&Units=SI

Legend

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

Cheméo (https://www.chemeo.com) is the biggest free database of chemical and physical data for the process industry.