Glufosinate, N,O,O-tris(tert-butyldimethylsilyl)deriv.

Other names: Glufosinate (AMPB), TBDMS
Inchi: InChI=1S/C23H54NO4PSi3/c1-21(2,3)30(11,12)24-19(20(25)27-31(13,14)22(4,5)6)17-18
InchiKey: NIPPQRPRIGOIAB-UHFFFAOYSA-N
Formula: C23H54NO4PSi3
SMILES: CC(C)(C)[Si](C)(C)NC(CCP(C)(=O)O[Si](C)(C)C(C)(C)C)C(=O)O[Si](C)(C)C(C)(C)C
Mol. weight [g/mol]: 523.91

Physical Properties

Property code	Value	Unit	Source
log10ws	-2.14		Crippen Method
logp	7.818		Crippen Method
rinpol	2550.00		NIST Webbook
rinpol	2550.00		NIST Webbook

Sources

Crippen Method: http://pubs.acs.org/doi/abs/10.1021/ci990307l
Crippen Method: https://www.chemeo.com/doc/models/crippen_log10ws
NIST Webbook: http://webbook.nist.gov/cgi/cbook.cgi?ID=U292762&Units=SI

Legend

log10ws: Log10 of Water solubility in mol/l
logp: Octanol/Water partition coefficient
rinpol: Non-polar retention indices