

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

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|----------------------|--|
| 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(=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 |
| rinsol | 2550.00 | | NIST Webbook |
| rinsol | 2550.00 | | NIST Webbook |

Sources

| | |
|-----------------|---|
| Crippen Method: | http://pubs.acs.org/doi/abs/10.1021/ci9903071 |
| Crippen Method: | https://www.cheméo.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 |
| rinsol: | Non-polar retention indices |

Latest version available from:

<https://www.cheméo.com/cid/73-706-7/Glufosinate-N-O-O-tris-tert-butyldimethylsilyl-deriv.pdf>

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