

Silane, **[[3«beta»,5«alpha»)-cholestan-3-yl]oxy]trimethyl-**

Other names:

Silane, (5«alpha»-cholestan-3«beta»-yloxy)trimethyl-
3-[(Trimethylsilyl)oxy]cholestane, (3«beta»,5«alpha»)-
5«alpha»-cholestan-3«beta»-ol, TMS
3«beta»-Cholestanyl trimethylsilyl ether
Cholestane, 3-[(trimethylsilyl)oxy]-, (3«beta»,5«alpha»)-
Dihydrocholesterol, TMS ether
5«alpha»-cholestan-3«beta»-ol (dihydrocholesterol), TMS
Cholestanol (5«alpha»-cholestan-3«beta»-ol), TMS
5A-Cholestan-3B-ol, TMS
Cholestan-3-ol, (3«beta»,5«alpha»)-, tms derivative

Inchi: InChI=1S/C30H56OSi/c1-21(2)10-9-11-22(3)26-14-15-27-25-13-12-23-20-24(31-32(6,7)8
InchiKey: HRLPEXVPNOBUDF-XECMYXEYSA-N
Formula: C30H56OSi
SMILES: CC(C)CCCC(C)C1CCC2C3CCC4CC(O[Si](C)(C)C)CCC4(C)C3CCC12C
Mol. weight [g/mol]: 460.85
CAS: 18880-51-8

Physical Properties

Property code	Value	Unit	Source
log10ws	-7.03		Crippen Method
logp	9.328		Crippen Method
rinqol	3169.00		NIST Webbook
rinqol	3175.00		NIST Webbook

Sources

Crippen Method: https://www.chemeo.com/doc/models/crippen_log10ws
NIST Webbook: <http://webbook.nist.gov/cgi/cbook.cgi?ID=C18880518&Units=SI>
Crippen Method: <http://pubs.acs.org/doi/abs/10.1021/ci9903071>

Legend

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

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