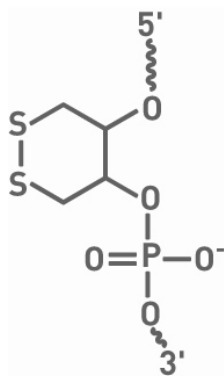


Dithiol

Structure



Key data

5' Mw 214.2 g/mol

Int Mw 214.2 g/mol

Requires HPLC Purification

Properties

Dithiol can be inserted into an oligonucleotide at either the 5' position or internally. Each insertion results in 2 SH group available for coupling with ligands or surfaces (linkage to gold surfaces in one popular application). The DTPA modification can be inserted in series so that 2 or even 3 groups can be positioned adjacent to each other to increase efficiency of ligand/surface interactions. Note that serial insertions will decrease oligo yield due to lower efficiency of incorporation of the DTPA phosphoramidite.