

Phosphorous triamide, hexaethyl-

Other names: Hexaethylphosphorous triamide; Hexaethylphosphoruo triamide; Hexaethylphosphorus triamide; P(N(C₂H₅)₂)₃; Tris(N,N-diethylamino)phosphine; Tris(diethylamino)phosphine.

InChI: InChI=1S/C12H30N3P/c1-7-13(8-2)16(14(9-3)10-4)15(11-5)12-6/h7-12H2,1-6H3

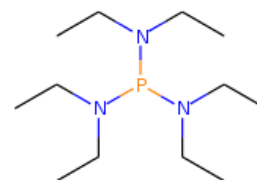
InChI Key: FDIOSTIIZGWENY-UHFFFAOYSA-N

Formula: C₁₂H₃₀N₃P

SMILES: CCN(CC)P(N(CC)CC)N(CC)CC

Molecular Weight: 247.36

CAS: 2283-11-6



Physical Properties

Property	Value	Unit	Source
IE	7.19	eV	NIST Webbook
$\log P_{\text{oct/wat}}$	3.24		Crippen Method
T _{boil}	406.00 ± 1.00	K	NIST Webbook

Sources

NIST Webbook: [http://webbook.nist.gov/cgi/inchi/InChI=1S/C12H30N3P/c1-7-13\(8-2\)16\(14\(9-3\)10-4\)15\(11-5\)12-6/h7-12H2,1-6H3](http://webbook.nist.gov/cgi/inchi/InChI=1S/C12H30N3P/c1-7-13(8-2)16(14(9-3)10-4)15(11-5)12-6/h7-12H2,1-6H3)

Crippen Method: <http://pubs.acs.org/doi/abs/10.1021/ci9903071>

Legend

IE: Ionization energy (eV).

$\log P_{\text{oct/wat}}$: Octanol/Water partition coefficient .

T_{boil}: Normal Boiling Point Temperature (K).

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