Tris(dibutylamino)phosphine

Other names: Tris(dibutylamino)phosphine
Inchi: InChI=1S/C24H54N3P/c1-7-13-19-25(20-14-8-2)28(26(21-15-9-3)22-16-10-4)27(23-17-1
InchiKey: URQFNWOYQMPPKL-UHFFFAOYSA-N
Formula: C24H54N3P
SMILES: CCCCN(CCCC)P(N(CCCC)CCCC)N(CCCC)CCCC
Mol. weight [g/mol]: 415.69

Physical Properties

Property code	Value	Unit	Source
hvap	81.17	kJ/mol	Cheméo Relay (1.0)
ie	6.60	eV	Cheméo Relay (1.0)
log10ws	-4.83		Cheméo Relay (1.0)
logp	7.920		Crippen Method
mcvol	399.420	ml/mol	McGowan Method
pc	854.39	kPa	Cheméo Relay (1.0, beta)
tb	633.98	K	Cheméo Relay (1.0)
tc	785.51	K	Cheméo Relay (1.0)

Pressure Dependent Properties

Property code	Value	Unit	Pressure [kPa]	Source
tbrp	429.50 ± 1.50	K	0.04	NIST Webbook

Sources

Cheméo Relay (1.0, beta):
NIST Webbook: http://webbook.nist.gov/cgi/cbook.cgi?ID=C5848657&Units=SI
McGowan Method: http://link.springer.com/article/10.1007/BF02311772
Crippen Method: http://pubs.acs.org/doi/abs/10.1021/ci990307l
Crippen Method: https://www.chemeo.com/doc/models/crippen_log10ws
Cheméo Relay (1.0):

Legend

hvap:	Enthalpy of vaporization at standard conditions
ie:	Ionization energy
log10ws:	Log10 of Water solubility in mol/l
logp:	Octanol/Water partition coefficient
mcvol:	McGowan's characteristic volume
pc:	Critical Pressure
tb:	Normal Boiling Point Temperature
tbrp:	Boiling point at reduced pressure
tc:	Critical Temperature