1-Triazene, 3,3-dimethyl-1-phenyl-

Other names:	Triazene, 3,3-dimethyl-1-phenyl-
	PDMT
	1-Phenyl-3,3-dimethyltriazene
	3,3-Dimethyl-1-phenyltriazene
	PDT
	X 119
	1-Fenyl-3,3-dimethyltriazin
	NSC 3094
Inchi:	InChI=1S/C8H11N3/c1-11(2)10-9-8-6-4-3-5-7-8/h3-7H,1-2H3
InchiKey:	LLROQAGEAVDYFP-UHFFFAOYSA-N
Formula:	C8H11N3
SMILES:	CN(C)N=Nc1ccccc1
Mol. weight [g/mol]:	149.19
CAS:	7227-91-0

Physical Properties

Property code	Value	Unit	Source
hf	142.83	kJ/mol	Joback Method
hvap	44.39	kJ/mol	Joback Method
log10ws	-1.69		Crippen Method
logp	2.247		Crippen Method
mcvol	125.460	ml/mol	McGowan Method
pc	2715.50	kPa	Joback Method
tb	570.76	K	Joback Method
tc	807.09	K	Joback Method

Pressure Dependent Properties

Property code	Value	Unit	Pressure [kPa]	Source
tbrp	399.20	K	2.50	NIST Webbook

Sources

McGowan Method:	http://link.springer.com/article/10.1007/BF02311772
NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=C7227910&Units=SI
Crippen Method:	http://pubs.acs.org/doi/abs/10.1021/ci990307l
Crippen Method:	https://www.chemeo.com/doc/models/crippen_log10ws
Joback Method:	https://en.wikipedia.org/wiki/Joback_method

Legend

hf:	Enthalpy of formation at standard conditions
hvap:	Enthalpy of vaporization at standard conditions
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