Diazene, diisopropyl

Other names: 1,2-Diisopropyldiazene
Inchi: InChI=1S/C6H14N2/c1-5(2)7-8-6(3)4/h5-6H,1-4H3
InchiKey: BXCOOPLIKAAONJ-UHFFFAOYSA-N
Formula: C6H14N2
SMILES: CC(C)N=NC(C)C
Mol. weight [g/mol]: 114.19
CAS: 3880-49-7

Physical Properties

Property code	Value	Unit	Source
chl	-4406.20 ± 1.30	kJ/mol	NIST Webbook
chl	-4361.74 ± 0.71	kJ/mol	NIST Webbook
hf	36.00	kJ/mol	NIST Webbook
hfl	-0.10 ± 0.79	kJ/mol	NIST Webbook
hvap	35.90 ± 0.40	kJ/mol	NIST Webbook
hvap	36.10	kJ/mol	NIST Webbook
hvap	36.20	kJ/mol	NIST Webbook
log10ws	-1.82		Crippen Method
logp	2.255		Crippen Method
mcvol	111.060	ml/mol	McGowan Method
pc	2402.92	kPa	Joback Method
rinpol	662.00		NIST Webbook
rinpol	662.00		NIST Webbook
tb	485.00	K	Joback Method
tc	693.22	K	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
hvapt	36.10	kJ/mol	302.00	NIST Webbook
hvapt	36.00 ± 2.00	kJ/mol	293.00	NIST Webbook

Sources

NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=C3880497&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
McGowan Method:	http://link.springer.com/article/10.1007/BF02311772

Legend

chl:	Standard liquid enthalpy of combustion
hf:	Enthalpy of formation at standard conditions
hfl:	Liquid phase enthalpy of formation at standard conditions
hvap:	Enthalpy of vaporization at standard conditions
hvapt:	Enthalpy of vaporization at a given temperature
log10ws:	Log10 of Water solubility in mol/l
logp:	Octanol/Water partition coefficient
mcvol:	McGowan's characteristic volume
pc:	Critical Pressure
rinpol:	Non-polar retention indices
tb:	Normal Boiling Point Temperature
tc:	Critical Temperature

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