Diazene, dipropyl

Other names: Dipropyldiazene
Inchi: InChI=1S/C6H14N2/c1-3-5-7-8-6-4-2/h3-6H2,1-2H3
InchiKey: LQCYZZANGSLXDJ-UHFFFAOYSA-N
Formula: C6H14N2
SMILES: CCCN=NCCC
Mol. weight [g/mol]: 114.19
CAS: 821-67-0

Physical Properties

Property code	Value	Unit	Source
chl	-4384.00 ± 1.00	kJ/mol	NIST Webbook
chl	-4373.33 ± 0.88	kJ/mol	NIST Webbook
hf	62.40	kJ/mol	NIST Webbook
hf	51.90	kJ/mol	NIST Webbook
hfl	22.00	kJ/mol	NIST Webbook
hfl	11.50	kJ/mol	NIST Webbook
hvap	39.90 ± 0.40	kJ/mol	NIST Webbook
hvap	40.30	kJ/mol	NIST Webbook
hvap	40.40	kJ/mol	NIST Webbook
hvap	39.88	kJ/mol	NIST Webbook
log10ws	-1.59		Crippen Method
logp	2.259		Crippen Method
mcvol	111.060	ml/mol	McGowan Method
pc	2365.67	kPa	Joback Method
rinpol	760.00		NIST Webbook
rinpol	760.00		NIST Webbook
tb	387.00 ± 1.00	K	NIST Webbook
tc	684.90	K	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
hvapt	39.50	kJ/mol	300.00	NIST Webbook

Sources

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
NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=C821670&Units=SI

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