Diazene, dibutyl

Other names: Di-n-butyldiazene
Inchi: InChI=1S/C8H18N2/c1-3-5-7-9-10-8-6-4-2/h3-8H2,1-2H3
InchiKey: SZNDPAPNQABPGR-UHFFFAOYSA-N
Formula: C8H18N2
SMILES: CCCCN=NCCCC
Mol. weight [g/mol]: 142.24
CAS: 2159-75-3

Physical Properties

Property code	Value	Unit	Source
chl	-5680.40 ± 3.60	kJ/mol	NIST Webbook
chl	-5690.00 ± 1.00	kJ/mol	NIST Webbook
hf	19.30	kJ/mol	NIST Webbook
hf	9.20 ± 3.80	kJ/mol	NIST Webbook
hfl	-40.10 ± 3.80	kJ/mol	NIST Webbook
hfl	-30.00	kJ/mol	NIST Webbook
hvap	49.30 ± 0.20	kJ/mol	NIST Webbook
hvap	49.31	kJ/mol	NIST Webbook
hvap	49.30 ± 0.20	kJ/mol	NIST Webbook
hvap	49.30	kJ/mol	NIST Webbook
log10ws	-2.43		Crippen Method
logp	3.039		Crippen Method
mcvol	139.240	ml/mol	McGowan Method
pc	1978.82	kPa	Joback Method
rinpol	962.00		NIST Webbook
rinpol	962.00		NIST Webbook
tb	531.64	K	Joback Method
tc	725.53	K	Joback Method

Pressure Dependent Properties

Property code	Value	Unit	Pressure [kPa]	Source
tbrp	332.50 ± 0.50	K	2.40	NIST Webbook

Sources

McGowan Method:	http://link.springer.com/article/10.1007/BF02311772
NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=C2159753&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

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
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
tbrp:	Boiling point at reduced pressure
tc:	Critical Temperature